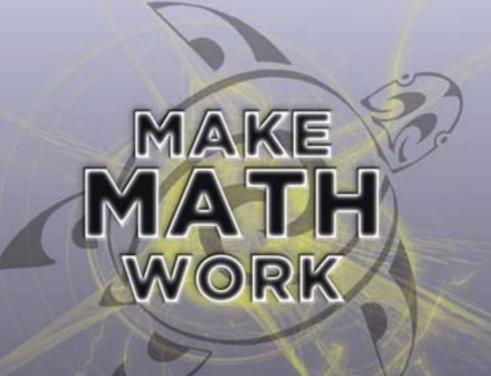
# TEACHER'S GUIDE



Preparing Indigenous Students for Apprenticeship and Employment

10 NUMERACY WORKBOOKS



MIRANDA MILLER

# **MAKE MATH WORK**

# **TEACHER'S GUIDE**

**Answer Key for 10 Workbooks** 

By Miranda Miller



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## Make Math Work: Preparing Indigenous Students for Apprenticeship and Employment

## **About The Workbooks**

Based on community needs, Ningwakwe Learning Press chose ten unique occupations. These were chosen to reflect not only the most representative of entry level jobs for Aboriginal people, but also occupations where there is a gap in what employers need. Math skills are needed in every occupation and a specific math topic was paired with each of these ten occupations. Each workbook focuses on one area of math that is related to a chosen career path. These workbooks are designed to help literacy learners understand and practice math concepts. They can be used to practice real-life workplace tasks and develop math skills.

Money – Cashier
Ratios and Proportions – Cook/Baker
Height, Weight and Distance – Transport Truck Driver
Tables, Charts and Graphs – Band Office Administrative Assistant
Estimation – Hairstylist
Measurement – Carpenter
Fractions – Plumber
Area and Angles – Welder
Averages – Hunting and Fishing Guide
Budgeting – Personal Support Worker

This guide is designed for the learner Goal Path: **Employment & Apprenticeship** It is suitable for learners with the End Goals: **Understand and Use Numbers** 

We have tried to keep the OALCF math concepts and practice at Level 1. Some career paths require more-advanced math skills. These may be at OALCF Level 2. They are shown here because they are real-life tasks that may be presented on the first day of a job.

Each workbook follows this structure:

#### First Nation Traditional Knowledge

This provides a cultural frame of reference along with a historical teaching to show how math skills have always been used in Indigenous cultures.

Job: [Specific Employment Descriptor]

This section describes a day in the life of the specific job and what kind of tasks may be expected.

#### Why Math?

Although some careers require many aspects of math, we have focussed only on one per workbook. This allows for the workbooks to be completed individually or the learner can pick and choose which math topics they need more skills development in.

#### Tasks

A short description of a real-life person and their experiences start off the mathematical explanation. A fill-in-the-blanks workbook sheet is then provided for the learner to practice this math concept. Although most of the tasks are attempted to be authentic and level 1, the skills do get harder throughout the workbook.

#### **Test Your Knowledge**

The last page of each workbook is an 8 question short test based on the concepts practiced in that one workbook. Each test is unique. The test is structured in a way that allows learners to engage in test-taking, practice filling in the answers like on GED and other formal tests. It is not meant to be hard or stressful but provide practice at the skills development they have just learned.

## **How this Guide Works**

This Teacher's Guide contains the answer keys for all ten of the numeracy workbooks in the *Make Math Work* series. Individual tasks may incorporate various Competencies and apply to multiple Goal Paths. A chart outlining the relevant OALCF Competencies and Task Groups precedes each workbook answer key.

The number codes within each chart consist of a letter and a number. The letter indicates to which OALCF competency the activity applies. The numbered extension indicates the learner level. For example, an activity marked as a B3.1 tells the practitioner it is:

- B: from the Communicate Ideas and Information Competency
- 3: from the Complete and Create Documents task group
- 1: suitable for a Level 1 or higher learner.

At the end of this Teacher's Guide, we have included a **Certificate of Completion** for your use if you want to encourage the completion of all 10 workbooks.

# Workbook 1: Money - Cashier

	OALCF Competencies & Task Groups															
	Competencies		d and l		Comi		te Ideas	s and	_	nderst Use Nu			logy		logy	ers
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others	
	Task Group #	<b>A1</b>	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F	
	Identifying Currency								C1.1							
· ·	Let's Make Change	A1.1							C1.1							
3	Rounding Cents								C1.1							
	Counting Inventory		A2.1									C4.1				
	Price Comparisons						B3.1a		C1.1							
6	Converting Percentages to Decimals								C1.1							
	Applying Discounts	A1.1							C1.2							
8	Tax Exemptions	A1.1	A2.1													

OALCF	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Goal Paths	X	X			

	Workbook 1. Money Casher
Task 1:	Identifying Currency
Learning Outcome:	Have learners complete Task 1 in their workbook. The purpose is to help learners improve their ability to recognize different denominations of Canadian currency.
OALCF:	This activity addresses Competency C Level 1. The applicable Task Group is C1: Manage money.
Duration:	5-10 minutes
Answer Key:	Dime – 10¢
	Quarter - 25¢
	Toonie - \$2
	Loonie - \$1
	Nickel - 5¢
	1. \$200

Task 2:	Let's Make Change				
Learning Outcome:	Have learners complete Task 2 in their workbook. The purpose is to help learners improve their money math skills and ability to calculate change in a retail setting.				
OALCF:	This activity addresses Competencies A: Find and Use Information and C: Understand and Use Numbers at Level 1. The applicable Task Groups are A1: Read continuous text C1: Manage money.				
Duration: Answers:	<ol> <li>a)\$12.75</li> <li>b) \$7.25</li> <li>c) Any combination of coins amounting to exactly \$7.25 is correct.</li> <li>a)\$16.25</li> <li>b)\$3.75</li> <li>c) Any combination of coins amounting to exactly \$3.75 is correct.</li> <li>a)\$12.00</li> <li>b)\$3.00</li> <li>c)Any combination of coins amounting to exactly \$3.00 is correct.</li> <li>a)\$14.45</li> <li>b)\$0.55</li> <li>c) Any combination of coins amounting to exactly \$0.55 is correct.</li> </ol>				

5	Any two	combinations	of coins	amounting to	exactly \$2.70	are correct
U.	THIN LVV	COHDINGUOIS	UI GUIIIG	announting to		are correct.

- 6. Any two combinations of coins amounting to exactly \$6.00 are correct.
  7. Any two combinations of bills and coins amounting to exactly \$24.20 are correct.

Task 3:	Rounding Cents							
Learning Outcome:	Have learners complete Task 3 in their workbook. The purpose is to help learners improve their business math skills and ability to function successfully in a retail setting.							
OALCF:	This activity addresses Competer Group is C1: Manage money.	icy C: Understand and Use	Numbers at Level 1. The applicable Task					
Duration:	10-15 minutes							
Answer Key:	1. \$1.25 2. \$2.35 3. \$8.35 4. \$6.20 5. \$4.50	6. \$1.15 7. \$9.35 8. \$3.40 9. \$5.30	10. \$11.00 11. \$60 12. \$90 13. \$20					

Task 4:	Counting Inventory
Learning Outcome:	Have learners complete Task 4 in their workbook. The purpose is to help learners improve their business math skills and better understand the specific requirements of a cashier position.
OALCF:	This activity addresses Competencies A: Find and Use Information and C: Understand and Use Numbers at Level 1. The applicable Task Groups are A2: Interpret documents and C4: Manage data.
Duration: Answer Key:	10-15 minutes 1. 5 2. 7 3. 3 4. 9 5. 10

Task 5:	Price Comparisons
Learning Outcome:	Have learners complete Task 5 in their workbook. The purpose is to help learners practice price comparisons in preparation for employment in a retail setting.
OALCF:	This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and Use Numbers at Level 1. The applicable Task Groups are B3: Complete and create documents and C4: Manage data.

<b>Duration:</b>	20 to 30 minutes
Steps:	1. Allow 20-30 minutes for learners to complete the activity.
=	

	Product	Brand 1	Brand 2	Brand 1	Brand 2	Best Deal
Answer Key:	roduct	Brana i	Brana E	Price per Unit	Price per Unit	Dost Dour
	Apples	Delicious	Ida Red	\$.33 per apple	\$.35 per apple	Delicious
		12 for \$4	10 for \$3.50			
	Oranges	Navel	Mandarin	\$0.44 per orange	\$0.54 per orange	Orange-O
		18 for \$8	12 for \$6.50			
	Candy	Yum Yums	Yum Yums	\$12.50/kg, or		Yum Yums 500g
		500 g for \$6.25	1kg for \$13	\$6.25 per 0.5kg	\$13/kg, or \$6.50 per 0.5 pound.	
	Juice	Tropiyummy 500 mL bottle for \$3.40	SuperTropica 500 mL bottle for \$3.50	\$3.40 per 500ml bottle	\$3.50 per 500ml bottle	Tropiyummy
	2% Milk	MooCow	Bessie's Best	\$4.20 per litre	\$2.31 per litre	Bessie's Best
		1 L for \$4.20	4 L for \$9.25			
	Washer Fluid	Squeeky Kleen	SuperClean	\$2.53 per litre	\$2.40 per litre	SuperClean
	80	1.5 L for \$3.80	2 L for \$4.80			
	Engine Oil	Awesome Moto	Bulk Motors	\$5 per litre	\$4 per litre	Bulk Motors
		1 L for \$5	4 L for \$16			

Task 6: **Converting Percentages to Decimals Learning Outcome:** Have learners complete Task 6 in their workbook. The purpose is to help learners improve their math skills in preparation for common cashier employment scenarios. OALCF: This activity addresses Competency C: Understand and Use Numbers. The applicable Task Group is C4: Manage data. **Duration:** 15 to 20 minutes Note: Learners may NOT use a calculator for this activity Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions. 2. Allow 15-20 minutes for learners to complete the activity. 3. Mark the worksheet using the answer key below. 9. \$37.69 **Answer Key:** 1. 0.16 5. 0.05 2. 0.47 6. \$2.85 10. \$4.70 3. 0.09 7. \$9.14

Task 7:	Applying Discounts

4. 0.13

**Learning Outcome:** Have learners complete Task 7 in their workbook. The purpose is to help learners improve their math

skills and better understand how discounts work in a retail setting.

**OALCF:** This activity addresses Competencies A: Find and Use Information at Level 1 and C: Understand and

Use Numbers. The applicable Task Groups are A1: Read continuous text and C1: Manage money.

\$0.97

**Duration:** 15-20 minutes

**Steps:** 1. Allow 15-20 minutes for learners to complete the activity.

2. Mark the worksheet using the answer key below.

**Answer Key:** 

	Item	Units	Discount	TOTAL
1	Water	6	\$0.60	\$5.40
2	Chips	2	\$0	\$6.00
3	Gasoline (16.78 L)	1	\$2.00	\$18.00
4	Gum	1	\$0	\$2.00
5	Chili	2	\$0.50	\$4.50
			Subtotal	\$35.90

Task 8: Tax Exemptions

Learning Outcome: Have learners complete Task 8 in their workbook. The purpose is to help learners better understand

how tax exemptions work in Canada in preparation for employment as a cashier.

**OALCF:** This activity addresses Competency A: Communicate Ideas and Information at Level 1. The

applicable Task Groups are A1: Read continuous text and A2: Interpret documents.

**Duration:** 15 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

1. F

Answer Key: 2. T

3. F

4. T

5. T

## **Test Your Knowledge Answers**

Money - Cashier (Pg 28)

1. c 2. b 3. e 4. e 5. d 6. a 7. b 8. b

## Workbook 2: Ratios and Proportions - Cook/Baker

	OALCF Competencies & Task Groups														
	Competencies	Find and Use Information			Communicate Ideas and Information		_	Understand and Use Numbers		logy	g	irs			
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
1	Common Abbreviations in Cooking & Baking	A1.1	A2.1								C3.1				
2	Converting Measurements						B3.1a				C3.1				
3	Recognizing Ratios & Proportions						B3.1a				C3.1	C4.1			
4	Expressing Ratios	A1.1									C3.1	C4.1			
5	Simplifying Ratios						B3.1a				C3.1	C4.1			
6	Order of Ratios	A1.1									C3.1	C4.1			
7	Making Larger Quantities with Recipes	A1.1									C3.1	C4.1			
8	Recipe Proportions	A1.1									C3.1	C4.1			

OALCF Coal Both	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Goal Path	X	Х			

Task 1: Common Abbreviations in Cooking & Baking

**Learning Outcome:** Have learners complete Task 1 in their workbook. The purpose is to help learners recognize common

units of measurement and improve their ability to succeed in a cook or baker position.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers at Level 1. The applicable Task Groups are A1: Read continuous text, A2: Interpret

documents and C3: Use measures.

**Duration:** 15 minutes

Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per

its instructions.

2. Allow 15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. Kilogram

2. Packages

3. Cups

4. Fluid ounces

5. Litre

#### Task 2: Converting Measurements

**Learning Outcome:** Have learners complete Task 2 in their workbook. The purpose is to help learners recognize common

measurement abbreviations and improve their ability to succeed in a cook or baker position.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers at Level 1. The applicable Task Groups are B3: Complete and create documents and

C3: Use measures.

**Duration:** 20-30 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 20-30 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 

Cups and Millilitres (mL)							
Conventional Measure	Metric Standard Measure						
½ cup	60 mL						
1/3 cup	75 mL						
½ cup	125 mL						
2/3 cup	150 mL						
¾ cup	175 mL						
1 cup	250 mL						
4 ½ cups	1 L						

Teaspoons (tsp) and Millilitres (mL)						
Conventional Measure	Metric Standard Measure					
1/8 tsp	0.5 mL					
1/4 tsp	1 mL					
½ tsp	2 mL					
1 tsp	5 mL					
2 tsp	10 mL					
1 tablespoon (tbsp.)	15 mL					

Dry Measures (weight in ounces and grams)					
Conventional Measure Metric Standard Measure					
1 ounce (oz)	28 grams (g)				
5 oz	140 g				
8 oz	250 g				
16 oz	500 g				
32 oz	1000 g, or 1 kilogram (kg)				

Task 3: Recognizing Ratios and Proportions

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners recognize rates,

ratios and proportions as they apply in a kitchen setting.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents and C3: Use

measures.

**Duration:** 10 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

#### Answer Key:

			Ratio Using Colon	Ratio as a Fraction
	to	0000	3:4	3/4
	to	* * *	2:3	2/3
000	to		3:4	3/4
	to	ΔΔ	1:2	1/2
0 0 0 0 0	to	$\Rightarrow \Rightarrow \Rightarrow$	6:3	6/3
☆ ☆	to	0000	2:4	2/4
	Ö	ΔΔΔ	5:3	5/3
ΔΔΔΔ	to		4:1	4/1
000	to	0 0 0 0 0 0	3:7	3/7
	to		4:2	4/2
$\Rightarrow \Rightarrow \Rightarrow$	to	0	3:2	3/2

Task 4: **Expressing Ratios** 

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners solve ratios as they

apply in a kitchen setting.

OALCF: This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

Steps: 2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 4:1

5. 3:1

8. 6:2 (or 3:1)

2. 6:2 (or 3:1)

6. 3:2

9. 1:1

3. 4:1

7. 3:1

10. 20:1

4. 3:2

Task 5: **Simplifying Ratios** 

Have learners complete Task 5 in their workbook. The purpose is to help learners understand ratios **Learning Outcome:** 

as they apply in a kitchen setting, in preparation for employment.

OALCF: This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers at Level 1. The applicable Task Groups are B3: Complete and create documents, C3:

Use measures and C4: Manage data.

**Duration:** 15 minutes

1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key:

Steps:

Ratio	Number both can be divided	Simplified Ratio
10:15	5	2:3
2:10	2	1:5
3:9	3	1:3
6:4	2	3:2
4:10	2	2:5
15:6	3	5:2
7:14	2	1:2
12:3	3	4:1
8:12	4	2:3
15:5	5	3:1

Task 6: Order of Ratios

**Learning Outcome:** Have learners complete Task 6 in their workbook. The purpose is to help learners understand ratios

as they apply in a kitchen setting, in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10 minutes

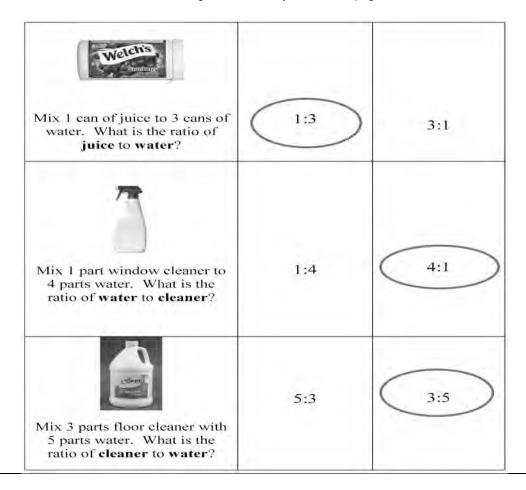
**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key on the next page.

Answer Key:



#### Task 7: Making Larger Quantities with Recipes

Learning Outcome: Have learners complete Task 7 in their workbook. The purpose is to help learners understand

proportions as they apply in a kitchen setting, in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4:

Manage data at Level 1.

#### **Duration:** 15-20 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 15-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

#### **Answer Key:**

1. 
$$\frac{5}{1} = \frac{15}{3}$$
5.  $\frac{1}{6} = \frac{3}{10}$ 

2. 
$$\frac{4}{1} = \frac{8}{2}$$
 6.  $\frac{1}{2} = \frac{2}{4}$ 

4. 
$$\frac{1}{1} = \frac{6}{6}$$
8.  $\frac{1}{7} = \frac{3}{21}$ 

#### Task 8: Recipe Proportions

**Learning Outcome:** Have learners complete Task 8 in their workbook. The purpose is to help learners understand

proportions as they apply in a kitchen setting, in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4:

Manage data at Level 1.

#### **Duration:** 10 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key on the next page.

#### **Answer Key:**

	9	,	1 0	
Carrots		3	4.5	
Cups of soup		6	9	
Cleaner		3	2	
Feet of counter		9	6	

Potatoes	3	360	
Guests	1	120	
chocolate cubes	9	45	
cake batter	1	5	

## **Test Your Knowledge Answers**

Ratios and Proportions – Cook/Baker (Pg 23)

- 1. B
- 2. D
- 3. C
- 4. A
- 5. B
- 6. D
- 7. E
- 8. C

# **Workbook 3: Height, Weight and Distance - Transport Truck Driver**

			OALCF Competencies & Task Groups												
	Competencies	Find and Use Information			Comi						logy	g	ırs		
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
	Measuring Tire Tread		A2.1								C3.1				
	Measuring Truck Height		A2.1								C3.1				
	Reading Weigh Scales		A2.1												
4	Calculating Load Weight	A1.1									C3.1	C4.1			
5	Determining if the Load is Overweight										C3.1	C4.1			
0	Reading an Odometer		A2.1								C3.1	C4.1			
7	Measuring Trip Time with Distance and Speed	A1.1								C2.1		C4.1			
	Calculating Pay for a Trip								C1.1		C3.1	C4.1			

	OALCF Coal Both	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
١	Goal Path	X	X			Х

Task 1: Measuring Tire Tread

**Learning Outcome:** Have learners complete Task 1 in their workbook. The purpose is to help learners understand

measurements as they apply in an employment setting.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

**Duration:** 10 minutes

Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 2 4. 0.25

2. 10 5. 2.25

3. 0.5

Task 2: Measuring Truck Height

Learning Outcome: Have learners complete Task 2 in their workbook. The purpose is to help learners understand

measurements as they apply in an employment setting.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

**Duration:** 10 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: 1. Yes 3. No

2. No 4. Yes

Task 3: Reading Weigh Scales

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand

measurements as they apply in an employment setting.

**OALCF:** This activity addresses Competency A: Find and Use. The applicable Task Group is A2: Interpret

documents at Level 1.

**Duration:** 10 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. 4. Mark the worksheet using the answer key below.

**Answer Key:** 1. 130 lbs 4. 40,250 lbs 7. 42,420 kg

2. 266 lbs 5. 22,895 lbs 8. 201 lbs

3. 19,691 kg 6. 36,782 lbs

Task 4: Calculating Load Weight

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand weight

and measurements as they apply in an employment setting.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-20 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 2000 kg 4. 10 000 kg

2. 400 kg 5. 900 kg

3. 18 000 kg

Task 5: Determining if the Load is Overweight

**Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand weight

and measurements as they apply in an employment setting.

OALCF: This activity addresses Competency C: Understand and Use Numbers. The applicable Task Groups

are C3: Use measures and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: 1. Underweight – 1250 kg 6. Underweight – 19,180 kg

Overweight – 2150 kg
 Overweight – 14,000 kg
 Overweight – 10 kg
 Underweight – 1 kg

4. Underweight – 4050 kg

5. Overweight – 4789 kg

Task 6: Reading an Odometer

Learning Outcome: Have learners complete Task 6 in their workbook. The purpose is to help learners understand time

and distance measurements as they apply in an employment setting.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. 4. Mark the worksheet using the answer key below.

Answer Key:	1. 2264 km	4. 2198 km
	2. 731 km	5. 2445 km
	3. 4118 km	

Task 7: Measuring Trip Time

**Learning Outcome:** Have learners complete Task 7 in their workbook. The purpose is to help learners understand time

and distance measurements as they apply in an employment setting.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C2: Manage time and C4:

Manage data at Level 1.

**Duration:** 10-20 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 9.13 hours – rounded to 9 hours or 9 ½ hours may be considered correct.

2. 42.13 hours – rounded to 42 hours or 42 ¼ hours may be considered correct.

3. 27.01 hours, or 27 hours.

4. 44.98 hours, or 45 hours.

Task 8: Calculating Pay for a Trip

**Learning Outcome:** Have learners complete Task 8 in their workbook. The purpose is to help learners understand time,

distance and money measurements as they apply in an employment setting.

**OALCF:** This activity addresses Competency C: Understand and Use Numbers. The applicable Task Groups

are C1: Manage money, C3: Use measures and C4: Manage data at Level 1.

**Duration:** 10-20 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. 4. Mark the worksheet using the answer key below.

**Answer Key:** 1. \$105.00 5. \$322.00

2. \$180.00 6. \$191.10

3. \$69.00 7. \$979.80

4. \$289.80 8. \$980.00

#### **Test Your Knowledge Answers**

#### Height, Weight and Distance – Transport Truck Driver (Pg 24)

1.	D	5.	В
2.	В	6.	D
3	n	7	C

4. A 8. A

## **Workbook 4: Estimation - Hairstylist**

OALCF Competencies & Task Groups															
	Competencies		d and l formati		Comi		te Idea	s and	_	nderst Use Nเ		logy	g	ers	
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	<b>A</b> 1	A2	<b>A</b> 3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
1	Estimating Length						B3.1				C3.1	C4.1			
	Estimating Liquid Volume						B3.1				C3.1	C4.1			
3	Estimating Appointment Booking	A1.1	A2.1							C2.1		C4.1			
	Estimating Drying Time	A1.1	A2.1							C2.1		C4.1			
5	Estimating Colour Time	A1.1	A2.1							C2.1		C4.1			
	Estimating Product Cost		A2.1						C1.1			C4.1			
7	Estimating Appointment Fee	A1.1	A2.1						C1.1			C4.1			

OALCF Goal Path	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Godi Palli	X	X			

Task 1: Estimating Length

**Learning Outcome:** Have learners complete Task 1 in their workbook. The purpose is to help learners understand

estimation and measurement as they apply in employment scenarios.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents, C3: Use

measures and C4: Manage data at Level 1.

**Duration:** 30 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 30 minutes for learners to complete the activity.

3. Review the worksheet to ensure students have completed estimations and measurements.

**Answer Key:** 

There are no exact right answers in estimation. Have the students see how far away the actual measurements are to their estimated length.

Task 2: Estimating Liquid Volume

**Learning Outcome:** Have learners complete Task 2 in their workbook. The purpose is to help learners understand

estimation and measurement as they apply in employment scenarios.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents, C3: Use

measures and C4: Manage data at Level 1.

**Duration:** 30 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 30 minutes for learners to complete the activity.

3. Review the worksheet to ensure students have completed estimations and measurements.

4. Allow an opportunity for learners to ask questions or discuss the activity; record and file the

results for the learner.

**Answer Key:** The practitioner must use their judgment to determine whether learners have successfully completed

the activity. Consider learners' ability to complete the activity within the assigned time.

Task 3: Estimating Appointment Booking

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand

estimation and measurement as they apply in employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, A2: Interpret documents, C2:

Manage time and C4: Manage data at Level 1.

**Duration:** 15 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 2 hours 40 minutes

2. 2 hours

3. 1 hour 20 minutes

4. 2 hours 50 minutes

Task 4: Estimating Drying Time

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand

estimation and measurement as they apply in employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, A2: Interpret documents, C2: Manage time and C4: Manage data at Level 1.

**Duration:** 

15 minutes

Steps:

- 1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.
- 2. Allow 15 minutes for learners to complete the activity.
- 3. Mark the worksheet using the answer key below.

**Answer Key:** 

Learner should have circled "Joe."

Learner should have circled "Chad."

Sweep the floor – Yes Restock the shelves – No Fold towels – Yes

Organize the shampoo stations - No

Task 5: Estimating Colour Time

**Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand

estimation and measurement as they apply in employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, A2: Interpret documents, C2:

Manage time and C4: Manage data at Level 1.

**Duration:** 15 minutes

Steps:

- 1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.
- 2. Allow 15 minutes for learners to complete the activity.
- 3. Mark the worksheet using the answer key below.

**Answer Key:** 

3.5 hours 1 hour

2 hours

Task 6: Estimating Product Cost

**Learning Outcome:** Have learners complete Task 6 in their workbook. The purpose is to help learners understand

estimation and measurement as they apply in employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C1: Manage money and C4:

Manage data at Level 1.

**Duration:** 15 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. sample answer given

2. 3 bottles of hairspray = \$30

1 bottle of mousse = \$8

3 bottles of oil = \$21

Estimated Cost = \$59

3. 5 bottles of hairspray = \$50

3 bottle of mousse = \$24

4 bottles of oil = \$28

Estimated Cost = \$102

4. 2 bottles of hairspray = \$20

4 bottle of mousse = \$32

3 bottles of oil = \$21

Estimated Cost = \$73

#### Task 7: Estimating Appointment Fee

**Learning Outcome:** Have learners complete Task 7 in their workbook. The purpose is to help learners understand

estimation and measurement as they apply in employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, A2: Interpret documents, C1:

Manage money and C4: Manage data at Level 1.

**Duration:** 20-30 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

Allow 20-30 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

4. Allow an opportunity for learners to ask questions or discuss the activity; record and file the

results for the learner.

Answer Key: \$95

\$64

At least \$135

\$80

\$52

#### **Test Your Knowledge Answers**

Estimation - Hairstylist (Pg 23)

- 1. A
- 2. B
- 3. C
- 4. E
- 5. B
- 6. D
- 7. D

# **Workbook 5: Tables, Charts and Graphs - Band Office Administrative Assistant**

					OALCF	Comp	etencie	s & Tas	k Grou	ps					
	Competencies		d and l		Comi	munica Inforn	te Idea	s and	_	Understand and Use Numbers				ıg	ers
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
1	Reading a Table		A2.1									C4.1			
	Reading a Line Graph		A2.1									C4.1			
3	Chart Types		A2.1									C4.1			
, <u>, , , , , , , , , , , , , , , , , , </u>	Make a Bar Chart						B3.1					C4.1			
5	Verifying Timesheets		A2.1				B3.1			C2.1		C4.1			
	Scheduling Appointments	A1.1	A2.1							C2.1		C4.1			
	Verifying an Invoice		A2.1						C1.1			C4.1			

OALCF Coal Both	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Goal Path	X	X			

Task 1: Reading a Table

**Learning Outcome:** Have learners complete Task 1 in their workbook. The purpose is to help learners understand tables,

charts and graphs in preparation for employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: interpret documents and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: Allan

No. he has not confirmed.

Theresa Two 12

Task 2: Reading a Line Graph

**Learning Outcome:** Have learners complete Task 2 in their workbook. The purpose is to help learners understand tables,

charts and graphs in preparation for employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: interpret documents and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: 26 degrees

4 degrees 27 degrees 3 degrees Monday

Task 3: Chart Types

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand tables,

charts and graphs in preparation for employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: interpret documents and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: Bar chart

Pie chart Area chart Area chart Bar chart

Task 4: Make a Bar Chart

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand tables,

charts and graphs in preparation for employment scenarios.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents and C4: Manage

data at Level 1.

**Duration:** 10-15 minutes

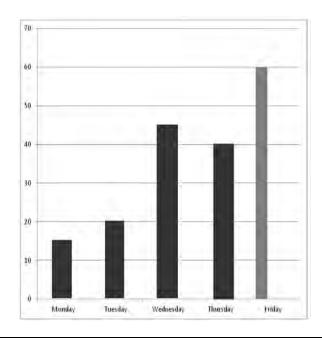
1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

**Steps:** 2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet by verifying that the information input to the chart is correct.

**Answer Key:** 



Task 5: Verify Timesheets

**Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand tables,

charts and graphs in preparation for employment scenarios.

**OALCF:** This activity addresses Competencies A: Find and Use Information, B: Communicate Ideas and

Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret documents, B3: Complete and create documents, C2: Manage time and C4: Manage data at Level 1.

#### Workbook 5: Tables, Charts and Graphs - Band Office Administrative Assistant

**Duration:** 10-15 minutes Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions. 2. Allow 10-15 minutes for learners to complete the activity. 3. Mark the worksheet using the answer key below. Answer Key: Learner should have initialled each daily entry and signed the timesheet as it is correct. Learner should have circled Monday's hours worked/day entry and replaced with 4 hours, as

well as replacing Total Hours Worked with 25 hours before signing. Learners should have circled and replaced Thursday's hours worked/day entry and replaced

with 6.5 hours, as well as replacing Total Hours Worked with 32 hours before signing.

Task 6: **Scheduling Appointments** 

Have learners complete Task 6 in their workbook. The purpose is to help learners understand tables, **Learning Outcome:** 

charts and graphs in preparation for employment scenarios.

OALCF: This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, A2: Interpret documents, C2:

Manage time and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

1. Allow 10-15 minutes for learners to complete the activity.

Mark the worksheet using the answer key below, then verify that the learner has made the

appropriate entries to the calendar on the worksheet.

**Answer Key:** Yes (add a calendar entry)

Yes (add a calendar entry) Yes (add a calendar entry) Yes (add a calendar entry)

Task 7: Verifying an Invoice

Have learners complete Task 7 in their workbook. The purpose is to help learners understand tables, **Learning Outcome:** 

charts and graphs in preparation for employment scenarios.

OALCF: This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C1: Manage money and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. No

2. Learners should have:

Changed 5 calculators to 4

Crossed out the LCD monitor that was not received

### **Test Your Knowledge Answers**

### Tables, Charts and Graphs - Band Office Administrative Assistant (Pg 24)

- 1.
- 2. D
- 3. E
- 4. B
- 5. A
- 6. B
- 7. E
- 8. D

# **Workbook 6: Measurement Distance - Carpenter**

	OALCF Competencies & Task Groups														
	Competencies		d and l ormati		Comi	munica Inforn	te Ideas	s and	Understand and Use Numbers				logy	g	ers
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
1	Metric and Imperial Measurement		A2.1				B3.1				C3.1				
	Converting Metric to Imperial		A2.1				B3.1				C3.1				
3	Converting Imperial to Metric		A2.1				B3.1				C3.1				
4	Recognizing Carpentry Tools		A2.1								C3.1				
5	Using a Measuring Tape		A2.1								C3.1				
0	Calculating Area – Square/Rectangle		A2.1								C3.1	C4.1			
1	Calculating Area – Triangle		A2.1								C3.1	C4.1			
	Calculating Volume		A2.1								C3.1	C4.1			

OALCF Coal Both	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Goal Path	X	X			

Task 1: Metric and Imperial Measurement

**Learning Outcome:** Have learners complete Task 1 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information, B: Communicate Ideas and

Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret

documents, B3: Complete and create documents and C3: Use measures at Level 1.

**Duration:** 10-20 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

1. 4. Mark the worksheet using the answer key below.

**Answer Key:** 

10 millimetres	1 centimetre
20 millimetres	2 centimetres
100 centimetres	1 metre
500 centimetres	5 metres
1,000 metres	1 kilometre
4,000 metres	4 kilometres
100 square millimetres	1 square centimetre
700 square millimetres	7 square centimetres
100 hectares	1 square kilometre
700 hectares	7 square kilometres

12 inches	1	foot
24 inches	2	feet
1 yard	3	feet
4 yards	12	feet
1 square yard	9	square feet
3 square yards	27	square feet
640 acres	1	square mile
1,280 acres	2	square miles

Task 2: Converting Metric to Imperial

**Learning Outcome:** Have learners complete Task 2 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information, B: Communicate Ideas and

Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret

documents, B3: Complete and create documents and C3: Use measures at Level 1.

**Duration:** 10-20 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key:

Metric	Divide by	Imperial
6 centimetres	2.54	2.36 inches
4 kilometres	1.6	2.5 miles
200 centimetres	30.48	6.56 feet
9 kilometres	1.6	5.63 miles
100 centimetres	91.44	1.09 yards
40 centimetres	30.48	1.31 feet
20 centimetres	2.54	7.87 inches
95 centimetres	91.44	1.04 yards
2 kilometres	1.6	1.25 miles
42 centimetres	2.54	16.54 inches

Task 3: **Converting Imperial to Metric** 

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

OALCF: This activity addresses Competencies A: Find and Use Information, B: Communicate Ideas and

Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret

documents, B3: Complete and create documents and C3: Use measures at Level 1.

**Duration:** 10-20 minutes

Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

#### **Answer Key:**

Imperial	Multiply by	Metric
5	2.54	12.7
inches	2.04	centimetres
7 miles	1.6	11.2
7 1111103	1.0	kilometres
2 feet	30.48	60.96
2 1001	00.10	centimetres
4 miles	1.6	6.4
	1.0	kilometres
9	2.54	22.86
inches	2.01	centimetres
8 yards	91.44	731.52
- ,	•	centimetres
. 7	2.54	17.78
inches		centimetres
2 miles	1.6	3.2
		kilometres
10 feet	30.48	304.80
40		centimetres
12	1.6	19.2
miles	_	kilometres

Task 4: **Recognizing Carpentry Tools** 

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

OALCF: This activity addresses Competencies A: Find and Use Information and C: Understand and Use

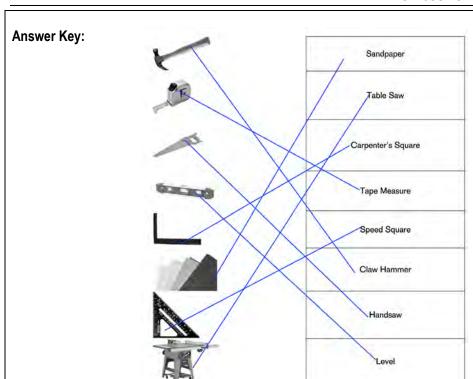
Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

**Duration:** 10 minutes

Steps: Instruct learners to read the applicable section in their workbook and complete the worksheet 1. as per its instructions.

Allow 10 minutes for learners to complete the activity.

Mark the worksheet using the answer key below.



Task 5: Using a Measuring Tape

**Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

**Duration:** 10 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: 1. 2 inches

2. 2 5/8 inches

3. 1 1/8 inches

4. 37/8

5. 2 5/8 inches

Task 6: Calculating Area – Square/Rectangle

**Learning Outcome:** Have learners complete Task 6 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-20 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. 4. Mark the worksheet using the answer key below.

**Answer Key:** 1. 15 ft<sup>2</sup>

2. 50 in<sup>2</sup>

3. 24 ft<sup>2</sup>

Task 7: Calculating Area – Triangle

**Learning Outcome:** Have learners complete Task 7 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-20 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. Area=  $\frac{1}{2}$  x 22 x 4

 $= \frac{1}{2} \times 88$ 

 $= 44 \text{ cm}^2$ 

2. Area= ½ x 8 x 4

 $= \frac{1}{2} \times 32$ 

 $= 16 cm^2$ 

3. Area= ½ x 15 x 7

 $= \frac{1}{2} \times 105$ 

 $= 52.5 \text{ cm}^2$ 

4. Area= ½ x 20 x 20

 $= \frac{1}{2} \times 400$ 

 $= 200 \text{ cm}^2$ 

Task 8: Calculating Volume

**Learning Outcome:** Have learners complete Task 8 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

	2. 3	Allow 10-15 minutes for learners to complete the activity.  Mark the worksheet using the answer key below.
Answer Key:		64 ft <sup>3</sup>
	2.	81 ft <sup>3</sup>
	3.	80 ft <sup>3</sup>

### **Test Your Knowledge Answers**

### Measurement Distance - Carpenter (Pg 23)

- 1. B
- 2. B
- 3. D
- 4. A
- 5. E
- 6. C
- 7. C
- 8. E

## **Workbook 7: Fractions - Plumber**

	OALCF Competencies & Task Groups														
	Competencies		d and l formati		Com		te Ideas	s and	_	nderst Use Nu			ogy		ers
Task#	,	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	<b>A1</b>	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
	Recognizing Fractions		A2.1									C4.1			
2	Simplifying Fractions						B3.1				C3.1	C4.1			
3	Common Measurements in Plumbing		A2.1								C3.1				
4	Adding Fractions						B3.1				C3.1	C4.1			
5	Subtracting Fractions						B3.1				C3.1	C4.1			
6	Converting Fractions to Decimals						B3.1				C3.1	C4.1			
7	Converting Metric to Imperial Measurements		A2.1				B3.1				C3.1	C4.1			
8	Converting Imperial to Metric Measurements		A2.1				B3.1				C3.1	C4.1			

OALCF Goal Path	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Goal Path	¥	¥			

Task 1: Recognizing Fractions

**Learning Outcome:** Have learners complete Task 1 in their workbook. The purpose is to help learners understand

measurement in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C4: Manage data at Level 1.

**Duration:** 5-10 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 5-10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 1/3 4. 1/2 2. 1/5 5. 1/6

3. 1/8

Task 2: Simplifying Fractions

**Learning Outcome:** Have learners complete Task 2 in their workbook. The purpose is to help learners understand

decimals and fractions in preparation for employment.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents, C3: Use

measures and C4: Manage data at Level 1.

**Duration:** 10-20 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

#### **Answer Key:**

Fraction	Number to divide by	Simplified fraction
3/9	3	1/3
8/12	4	2/3
6/18	3	2/9
10/30	10	1/3
5/20	5	1/4
4/22	2	2/11
12/32	4	3/8
20/50	10	2/5
9/15	3	3/5
3/6	3	1/2
15/40	5	3/8

Task 3: Common Measurements in Plumbing

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand

decimals and fractions in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

Duration:	10-15 minutes								
Steps:		struct learners to read the applicable section in their workbook and complete the worksheet per its instructions.							
	2. Allow 10-15 minute	low 10-15 minutes for learners to complete the activity.							
	<ol><li>Mark the workshee</li></ol>	t using the answer key below.							
Answer Key:	1. Metre	6. In or "							
	2. 3.28	7. Six feet, three inches							
	3. Inches	8. 0.30							
	4. 2.54	9. In or "							
	5. Foot	10. 0.30							

Task 4: Adding Fractions

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand

decimals and fractions in preparation for employment.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents, C3: Use

measures and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 

Add these fractions	Answer	Simplified fraction (if necessary)
1/3 + 1/3	2/3	
2/6 + 2/6	4/6	2/3
3/5 + 1/5	4/5	
4/7 + 2/7	6/7	
5/9 + 1/9	6/9	2/3
11/15 + 3/15	14/15	
9/16 + 3/16	12/16	3/4
2/5 + 1/5	3/5	
11/20 + 4/20	15/20	3/4
13/17 + 2/17	15/17	
12/19 + 3/19	15/19	
5/8 + 2/8	7/8	

Task 5: Subtracting Fractions

**Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand

decimals and fractions in preparation for employment.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents, C3: Use

measures and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

**Steps:** 2. Allow 10-15 minutes for learners to complete the activity.

3. 4. Mark the worksheet using the answer key below.

Answer Key:	Subtract these fractions	Answer	Simplified fraction (if necessary)
	2/3 – 1/3	1/3	
	4/9 – 1/9	3/9	1/3
	12/15 – 9/15	3/15	1/5
	9/10 – 2/10	7/10	
	4/5 – 2/5	3/5	
	15/18 – 11/18	4/18	2/9
	7/12 – 6/12	1/12	
	5/8 – 2/8	3/8	
	14/17 – 4/17	10/17	
	3/4 – 1/4	2/4	1/2
	6/7 – 3/7	3/7	
	3/5 – 2/5	1/5	

Task 6: Converting Fractions to Decimals

**Learning Outcome:** Have learners complete Task 6 in their workbook. The purpose is to help learners understand

decimals and fractions in preparation for employment.

**OALCF:** This activity addresses Competencies B: Communicate Ideas and Information and C: Understand and

Use Numbers. The applicable Task Groups are B3: Complete and create documents, C3: Use

measures and C4: Manage data at Level 1.

**Duration:** 10-20 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

Allow 10-20 minutes for learners to complete the activity.

3. 4. Mark the worksheet using the answer key below.

**Answer Key:** 

Fraction	Decimal
2/4	0.5
3/5	0.6
9/10	0.9
1/3	0.33
4/7	0.57
2/9	0.22
7/8	.875 (answer may be .87 or.88 if they round up)
12/15	8.0
2/7	.285 (answer may be .28 or .29 if they round up)
1/8	.125 (answer may be .12 or .13 if they round up)
11/12	.916 (answer may be .91 or .92 if they round up)
9/14	0.64
8/15	0.53

Task 7: Converting Metric to Imperial Measurements

**Learning Outcome:** Have learners complete Task 7 in their workbook. The purpose is to help learners understand

decimals and fractions in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information, B: Communicate Ideas and

Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret documents, B3: Complete and create documents, C3: Use measures and C4: Manage data at Level

1.

**Duration:** 10-20 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

#### **Answer Key:**

Metric	Divide by	Imperial
8 centimeters	2.54	3.15 inches
3 kilometers	1.6	1.88 miles
50 centimeters	30.48	1.64 feet
11 kilometers	1.6	6.88 miles
500 centimeters	91.44	5.47 yards
80 centimeters	30.48	2.62 feet
25 centimeters	2.54	9.84 inches
120 centimeters	91.44	1.31 yards
8 kilometers	1.6	5 miles
50 centimeters	2.54	19.69 inches

Task 8: Converting Imperial to Metric Measurements

Learning Outcome: Have learners complete Task 8 in their workbook. The purpose is to help learners understand

decimals and fractions in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information, B: Communicate Ideas and

Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret documents, B3: Complete and create documents, C3: Use measures and C4: Manage data at Level

1.

**Duration:** 10-20 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. 4. Mark the worksheet using the answer key below.

#### **Answer Key:**

Imperial	Multiply by	Metric				
12	2.54	30.48				
inches	2.54	centimeters				
15 miles	1.6	24 kilometers				
6 feet	30.48	182.88				
o ieet	30.40	centimeters				
7 miles	1.6	11.2 kilometers				
23	2.54	58.42				
inches	2.04	centimeters				
2 vordo	91.44	182.88				
2 yards	91.44	centimeters				
13	2.54	33.02				
inches	2.54	centimeters				
8 miles	1.6	12.8 kilometers				
17 feet	30.48	518.16				
17 feet	30.48	centimeters				
21 miles	1.6	33.6 kilometers				

### **Test Your Knowledge Answers**

Fractions - Plumber (Pg 24)

5. A

1.	D	6.	D
2.	С	7.	В

2. C 7. 3. E 8.

4. D

# Workbook 8: Area and Angles - Welder

	OALCF Competencies & Task Groups														
	Competencies		d and l formati		Comi	Communicate Ideas and Information		Understand and Use Numbers				logy	g	rs	
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	<b>A1</b>	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
	Calculating the Area of a Simple Square		A2.1								C3.1	C4.1			
2	Calculating the Area of Shapes		A2.1								C3.1	C4.1			
	Identifying Types of Angles		A2.1								C3.1				
	Identifying the Parts of an Angle		A2.1								C3.1				
	Right Angles – the Hypotenuse		A2.1								C3.1				
	Rights Angles – Pythagorean Theorem		A2.1								C3.1	C4.1			
	Measuring Circles		A2.1								C3.1	C4.1			
8	Calculating Circumference		A2.1								C3.1	C4.1			

OALCF Coal Both	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Goal Path	X	X			

Task 1: Calculating the Area of a Simple Square

**Learning Outcome:** Have learners complete Task 1in their workbook. The purpose is to help learners understand area

and angles in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-20 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 25 cm<sup>2</sup> 6. 196 ft<sup>2</sup>

2. 4 ft<sup>2</sup> 7. 729 cm<sup>2</sup> 3. 121 in<sup>2</sup> 8. 169 in<sup>2</sup>

4. 225 cm<sup>2</sup> 9. 81 cm<sup>2</sup>

5. 484 m<sup>2</sup> 10. 1024 cm<sup>2</sup>

Task 2: Calculating the Area of a Shapes

Learning Outcome: Have learners complete Task 2 in their workbook. The purpose is to help learners understand area

and angles in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: 1. A = bxh

2. A = wxI 7.  $A = r2 \times \pi$ 

3.  $A = r2 x \pi$  8. A = bxh 4. A = wxl 9. A = bxh/2

5. A = bxh/2 10. A = wxl

Task 3: Types of Angles

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand area

and angles in preparation for employment.

OALCF: This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

6. A = wxl

**Duration:** 10 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions. 2. Allow 10 minutes for learners to complete the activity. 3. Mark the worksheet using the answer key below. **Answer Key:** Right angle Reflex angle 1. 2. Straight angle 7. Right angle 3. Obtuse angle 8. Reflex angle 4. Acute angle 9. Acute angle 5. Right angle 10. Straight angle

Task 4: Parts of an Angle

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand area

and angles in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

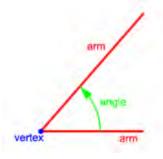
**Duration:** 10 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** Compare learner labels with this properly labeled angle:



Task 5: Right Angles – the Hypotenuse

**Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand area

and angles in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C3: Use measures at Level 1.

**Duration:** 5-10 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 5-10 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

	Workbook 8: Areas and Angles - Welder
Answer Key:	Check that learner has circled the right angle vertex (hypotenuse) in each image, as shown below:
Task 6:	Right Angles – Pythagorean Theorem
Learning Outcome:	Have learners complete Task 6 in their workbook. The purpose is to help learners understand area and angles in preparation for employment.
OALCF:	This activity addresses Competencies A: Find and Use Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4: Manage data at Level 1.
Duration:	10-20 minutes

	1.	Instruct learners to read the applicable section in their workbook and complete the worksheet
		as per its instructions.
Steps:	2.	Allow 10-20 minutes for learners to complete the activity.
	2	Mark the workshoot using the answer key below

პ.	iviark the worksheet using the answer key	y below.	
1.	$C^2 = 2^2 + 4^2$	4.	$C^2 = 9^2 + 17^2$
2.	$C^2 = 7^2 + 4^2$	5.	$C^2 = 20^2 + 11^2$

Task 7:	Measuring	Circles

 $C^2 = 5^2 + 9^2$ 

Answer Key:

Answer Key:

Learning Outcome:	Have learners complete Task 7 in their workbook.	The purpose is to help learners understand area
	and angles in preparation for employment.	

OALCF:	This activity addresses Competencies A: Find and Use Information and C: Understand and Use
	Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:
	Manager data at Laval A

	Manage data at Level 1.	
Duration:	10-20 minutes	

Steps:	1.	Instruct learners to read the applicable section in their workbook and complete the worksheet
		as per its instructions.
	2	Allow 10-20 minutes for learners to complete the activity

Task 8:	Calculating Circumference
Learning Outcome:	Have learners complete Task 8 in their workbook. The purpose is to help learners understand area and angles in preparation for employment.
OALCF:	This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4: Manage data at Level 1.

Duration:	10-20 minutes								
Steps:	Steps:  1. Instruct learners to read the applicable section in their workbook and complete the value as per its instructions.								
	2. Allow 10-20 minutes for learners to complete the activity.								
	<ol><li>Mark the worksheet using the</li></ol>	e answer key below.							
	1. C = 2 πr	4. C = 2 πr							
Answer Key:	$C = 2 \times 3.14 \times 5$	$C = 2 \times 3.14 \times 6$							
•	2. C = 2 πr	5. C = 2 πr							
	$C = 2 \times 3.14 \times 7.5$	$C = 2 \times 3.14 \times 7$							
	3. $C = 2 \pi r$	6. C = 2 πr							
	$C = 2 \times 3.14 \times 2$	$C = 2 \times 3.14 \times 15$							

### **Test Your Knowledge Answers**

Area and Angles - Welder (Pg 25)

1. B 2. D 3. A 4. C 5. E 6. D 7. C

Α

8.

# Workbook 9: Averages - Hunting and Fishing Guide

	OALCF Competencies & Task Groups														
	Competencies	Find and Use Information		Communicate Ideas and Information		Understand and Use Numbers			logy	g	irs				
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Use Digital Technold Manage Learning	Engage with Others
	Task Group #	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
1	Understanding Averages	A1.1									C3.1	C4.1			
2	Average Amount of Supplies Required		A2.1								C3.1	C4.1			
3	Average Pelt Size		A2.1								C3.1	C4.1			
4	Average Income		A2.1						C1.1	C2.1		C4.1			
5	Average Distance		A2.1								C3.1	C4.1			
6	Mode	A1.1									C3.1	C4.1			
7	Median	A1.1									C3.1	C4.1			

Task 1:	Understanding Averages										
Learning Outcome:		Have learners complete Task 1 in their workbook. The purpose is to help learners understand averages in preparation for employment.									
OALCF:	Numbe	This activity addresses Competencies A: Find and Use Information and C: Understand and Use Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4: Manage data at Level 1.									
Duration:	10-20 n	ninutes									
Steps:	1.	Instruct learners to reas per its instructions		able section	on in their workbook and complete the worksheet						
	2.	Allow 10-20 minutes	for learners t	o complete	the activity.						
	3.	Mark the worksheet	using the ans	wer key be	low.						
Answer Key:	1.	3	5.	8	8. 6						
	2.	7	6.	5	9. 6						
	3. 9 7. 8 10. 7										
	4.	12									

Task 2: Average Amount of Supplies Required

**Learning Outcome:** Have learners complete Task 2 in their workbook. The purpose is to help learners understand

averages in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. September – 68

2. October - 70

3. November – 63

4. December – 69

Task 3: Average Pelt Size

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand

averages in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

**Steps:** 2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 32, 25, 31, 19 4. 15, 17, 9, 23

2. 17 5. Southern region

3. Week 3

Task 4: Average Income

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand

averages in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C1: Manage money, C2: Manage

time and C4: Manage data at Level 1.

**Duration:** 10-15 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

	3.	Mark the worksheet using the	he answer key below.		
Answer Key:	1. 2.	\$6750.00 \$2500.00 \$2340.00	4. 5.	\$2690.00 \$4010.00	

Task 5: **Average Distance Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand averages in preparation for employment. OALCF: This activity addresses Competencies A: Find and Use Information and C: Understand and Use Numbers. The applicable Task Groups are A2: Interpret documents, C3: Use measures and C4: Manage data at Level 1. Materials: Task 5 worksheet Pen or pencil Scrap paper for calculations, if required **Duration:** 15-20 minutes Steps: 1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions. 2. Allow 15-20 minutes for learners to complete the activity. 3. Mark the worksheet using the answer key below. 1. 37 Answer Key: 6. 518 259

Task 6:	Mode	
	J. 74	10. 1102
	5. 74	10 1102
	4. 511	9. 86 10. 1102
	3. 73	8. 560
	2. 200	1. 00

Task 6:	Mode								
Learning Outcome:	Have learners complete Task 6 in their workbook. The purpose is to help learners understand averages in preparation for employment.								
OALCF:	This activity addresses Competencies A: Find and Use Information and C: Understand and Use Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4: Manage data at Level 1.								
Duration: Steps:	<ol> <li>15-20 minutes</li> <li>Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.</li> <li>Allow 15-20 minutes for learners to complete the activity.</li> <li>Mark the worksheet using the answer key below.</li> </ol>								
Answer Key:	1. 36       6. 47         2. 50       7. 67         3. 40       8. 25         4. 74       9. 10         5. 92       10. 45								

300

56

7.

8.

Task 7: Median

**Learning Outcome:** Have learners complete Task 7 in their workbook. The purpose is to help learners understand

averages in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C3: Use measures and C4:

Manage data at Level 1.

**Duration:** 15-20 minutes

2. Instruct learners to read the applicable section in their workbook and complete the worksheet as per

its instructions.

**Steps:** 3. Allow 15-20 minutes for learners to complete the activity.

4. Mark the worksheet using the answer key below.

5. Allow an opportunity for learners to ask questions or discuss the activity; record and file the results

for the learner.

**Answer Key:** 1. 35 6. 96

64
 6

 4. 37
 9. 350

 5. 51
 10. 52

### **Test Your Knowledge Answers**

Averages - Hunting and Fishing Guide (Pg 24)

- 1. A
- 2. D
- 3. B
- 4. C
- 5. B
- 6. D
- 7. E
   8. B

# **Workbook 10: Budgeting – Personal Support Worker**

OALCF Competencies & Task Groups															
	Competencies		Find and Use Communicate Ideas and Information		Understand and Use Numbers				logy	g	irs				
Task#	Activity Name	Read continuous text	Interpret documents	Extract info from films, broadcasts & presentations	Interact with others	Write continuous text	Complete and create documents	Express oneself creatively	Manage money	Manage time	Use measures	Manage data	Use Digital Technology	Manage Learning	Engage with Others
	Task Group #	A1	A2	A3	B1	B2	B3	B4	C1	C2	C3	C4	D	Е	F
1	Budgeting for Groceries	A1.1							C1.1			C4.1			
2	Budgeting for Medication	A1.1							C1.1			C4.1			
3	Reading Household Bills		A2.1						C1.1			C4.1			
4	Calculating Expenses		A2.1						C1.1			C4.1			
5	Budgeting Time for Client Visits		A2.1							C2.1					
6	Scheduling Client Activities	A1.1					B3.1			C2.1					
7	Keeping Track of Time		A2.1							C2.1					

OALCF Cool Both	Employment	Apprenticeship	Secondary School Credit	Postsecondary Credit	Independence
Goal Path	Х	X			

Task 1: Budgeting for Groceries

**Learning Outcome:** Have learners complete Task 1 in their workbook. The purpose is to help learners understand

budgeting money in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C1: Manage money and C4:

Manage data at Level 1.

**Duration:** 15-20 minutes

1. Instruct learners to read the applicable section in their workbook and complete the

worksheet as per its instructions.

**Steps:** 2. Allow 15-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. \$34.00 – Yes

\$37.00 - No
 \$35.00 - Yes
 \$33.00 - Yes

Task 2: Budgeting for Medication

Learning Outcome: Have learners complete Task 2 in their workbook. The purpose is to help learners understand

budgeting in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A1: Read continuous text, C1: Manage money and C4:

Manage data at Level 1.

**Duration:** 15-20 minutes

1. Instruct learners to read the applicable section in their workbook and complete the

worksheet as per its instructions.

**Steps:** 2. Allow 15-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 

Prescription Drug	Cost	Drug Plan Pays	Client Pays
Accupril for blood pressure	\$31	\$27	\$4
Claritin for allergies	\$17	\$12	\$5
DiaBeta for diabetes	\$57	\$40	\$17
Fosamax for osteoporosis	\$9	\$6	\$3
Isordil for angina	\$10	\$5	\$5
Remeron for depression	\$9	\$5	\$4
Sinemet for Parkinson's	\$12	\$10	\$2
disease			
Voltaren for inflammation	\$16	\$8	\$8
Xalatan for glaucoma	\$17	\$11	\$6
Zyloprim for gout	\$7	\$2	\$5

Task 3: Reading Household Bills

**Learning Outcome:** Have learners complete Task 3 in their workbook. The purpose is to help learners understand

budgeting money in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C1: Manage money and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the

worksheet as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key: 1.

a) December 6, 2013

b) December 24, 2013

c) 1-800-434-1235

d) \$188.90

e) \$150.00

2.

a) March 19, 2009

b) \$14.67

c) \*611

d) \$127.51

e) \$37.62

Task 4: Calculating Expenses

**Learning Outcome:** Have learners complete Task 4 in their workbook. The purpose is to help learners understand

budgeting money in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents, C1: Manage money and C4:

Manage data at Level 1.

**Duration:** 10-15 minutes

**Steps:** 1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. \$13.00 4. \$14.00

2. \$29.00 5. \$22.00

3. \$21.00 6. \$23.00

Task 5: Budgeting Time for Client Visits

**Learning Outcome:** Have learners complete Task 5 in their workbook. The purpose is to help learners understand

budgeting time in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C2: Manage time at Level 1.

**Duration:** 10-15 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-15 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key:	No	
•	Yes	
	1	
	2	
	Friday	
	No	
	Tuesday Yes	

Task 6: Scheduling Client Activities

**Learning Outcome:** Have learners complete Task 6 in their workbook. The purpose is to help learners understand

budgeting time in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information, B: Communicate Ideas and

Information and C: Understand and Use Numbers. The applicable Task Groups are A1: Read

continuous text, B3: Complete and create documents and C2: Manage time at Level 1.

**Duration:** 10-20 minutes

Steps:

1. Instruct learners to read the applicable section in their workbook and complete the worksheet as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

Answer Key:

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
		1 10:00 – 11:00 PSW visit 2:00 – 4:00 Bridge	2 9:00 – 10:00 Physiotherapy	3 10:00 – 11:00 PSW visit	4	5 6:00 – 7:00 Community centre dinner
6 4:00 – 5:00 Library	7 9:00 – 10:00 Physiotherapy	8 10:00 – 11:00 PSW visit 2:00 – 4:00 Bridge	9 9:00 – 10:00 Physiotherapy	10 10:00 – 11:00 PSW visit	11	12 6:00 – 7:00 Community centre dinner
13	14 9:00 – 10:00 Physiotherapy	15 10:00 – 11:00 PSW visit 2:00 – 4:00 Bridge	16 9:00 – 10:00 Physiotherapy	17 10:00 – 11:00 PSW visit	18	19 6:00 – 7:00 Community centre dinner
20 4:00 – 5:00 Library	21 9:00 – 10:00 Physiotherapy	22 10:00 – 11:00 PSW visit 2:00 – 4:00 Bridge	23 9:00 – 10:00 Physiotherapy 3:00 – 4:00 Meet with pharmacist	24 10:00 – 11:00 PSW visit	25	26 6:00 – 7:00 Community centre dinner
27	28 9:00 – 10:00 Physiotherapy	29 10:00 – 11:00 PSW visit 2:00 – 4:00 Bridge	30 9:00 – 10:00 Physiotherapy	31 10:00 – 11:00 PSW visit		

Task 7: Keeping Track of Time

**Learning Outcome:** Have learners complete Task 7 in their workbook. The purpose is to help learners understand

budgeting time in preparation for employment.

**OALCF:** This activity addresses Competencies A: Find and Use Information and C: Understand and Use

Numbers. The applicable Task Groups are A2: Interpret documents and C2: Manage time at Level 1.

**Duration:** 10-20 minutes

**Steps:**1. Instruct learners to read the applicable section in their workbook and complete the worksheet

as per its instructions.

2. Allow 10-20 minutes for learners to complete the activity.

3. Mark the worksheet using the answer key below.

**Answer Key:** 1. 90 minutes

2. 120 minutes

3. 105 minutes

4. 105 minutes

5. 135 minutes

6. 150 minutes

120 minutes
 135 minutes

9. 115 minutes

40 400 --- ---

10. 120 minutes

### **Test Your Knowledge Answers**

**Budgeting – Personal Support Worker (Pg 27)** 

- 1. C
- 2. A
- 3. C
- 4. D
- 5. E
- 6. C
- 7. E
   8. B