Task Title: Using Fractions at Work

OALCF Cover Sheet – Practitioner Copy

Learner Name: _____

Date Started: _____

Date Completed: _____

Successful Completion: Yes ☐ No ☐

Goal Path: Employment ■ Apprenticeship ☐

Secondary School ■ Post Secondary ☐ Independence ☐

Task Description: The learner will solve word problems involving calculations using fractions.

Main Competency/Task Group/Level Indicator:

- Find and Use Information/Read continuous text/A1.1
- Understand and Use Numbers/Manage time/C2.2
- Manage Learning/E.1

Materials Required:

- Pen/pencil and paper and/or digital device
- Calculator or digital device with calculator function (optional)

Learner Information

In our work lives, we often encounter problems involving fractions. Fractions may be used to solve problems involving price calculations or time management of tasks.

Work Sheet

Task 1: The bus you take to go to work arrives at your bus stop at 8:15 a.m. It takes you 1/3 hour to get showered and dressed; 20 minutes to eat; and 2/3 hour to walk to your bus stop. How long before the bus will arrive must you get up?

Answer:

Task 2: At the store where you work, everything is on sale today for 2/3 off the original price. A customer wants to purchase a coat. The original price of the coat is $144. How much will the customer pay today?

Answer:

Task 3: The directions for mixing up garden fertilizer say to add 5/8 cup fertilizer to a litre of water. You have a large garden area and decide to triple the amounts. How much fertilizer and how much water will you need?

Answer:

Task 4: Joe is reading a report from work. It says that 2/3 of their customers like one product the best, while another 1/4 like another product the best. The rest have no opinion. Joe wants to contact the people who have no opinion. If there are 360 customers, how many customers will Joe have to contact?

Answer:

Task 5: When cutting a piece of trim, by mistake you cut a piece 2 3/8 ” instead of the required 5 1/4”. Since you don’t have enough to recut the correct length, how much more trim do you need to cut to make up the required length?

Answer:

Task 6: You are working at an assisted living facility for older people who need help with cleaning and yard work. It takes you 3/4 hour to mow the lawn and 1/2 hour to edge and trim. Then you spend 50 minutes working in the vegetable garden. How many hours will you record in your work log?

Answer:

Task 7: Complete the Learner's Self Reflection checklist.

Learner's Self-Reflection

1. I know how to place fractions in order of size.	Yes ❑ No ❑
2. I can visualize what part of a whole is meant by different fractions.	Yes ❑ No ❑
3. I can add and subtract fractions.	Yes ❑ No ❑
4. I can multiply and divide fractions.	Yes ❑ No ❑
5. I understand what a proper and an improper fraction is.	Yes ❑ No ❑
6. I usually reduce fractions to their lowest terms.	Yes ❑ No ❑
7. I read the question carefully to find clues to its solution.	Yes ❑ No ❑
8. I can solve real life problems involving fractions.	Yes ❑ No ❑

Answers

Task 1: The bus you take to go to work arrives at your bus stop at 8:15 a.m. It takes you 1/3 hour to get showered and dressed; 20 minutes to eat; and 2/3 hour to walk to your bus stop. How long before the bus will arrive must you get up?

Answer: 1/3 + 1/3 + 2/3 = 1 1/3 hour or 1 hour 20 minutes

Task 2: At the store where you work, everything is on sale today for 2/3 off the original price. A customer wants to purchase a coat. The original price of the coat is $144. How much will the customer pay today?

Answer: The customer will pay 1/3 of $144 = $48.00

Task 3: The directions for mixing up garden fertilizer say to add 5/8 cup fertilizer to a litre of water. You have a large garden area and decide to triple the amounts. How much fertilizer and how much water will you need?

Answer: 5/8 x 3 = 1 7/8 cup fertilizer to 3 litres of water

Task 4: Joe is reading a report from work. It says that 2/3 of their customers like one product the best, while another 1/4 like another product the best. The rest have no opinion. Joe wants to contact the people who have no opinion. If there are 360 customers, how many customers will Joe have to contact?

Answer: 2/3 of 360 = 240 ¼ of 360 = 90, 240+ 90 = 330 360-330 = 30 Joe will have to contact 30 people.

(Alternatively: 2/3=8/12, ¼ = 3/12, 8/12 + 3/12 = 11/12, so Joe will have to contact 1/12 of 360 people = 30 people)

Task 5: When cutting a piece of trim, by mistake you cut a piece 2 3/8" instead of the required 5 1/4". Since you don't have enough to

recut the correct length, how much more trim do you need to cut to make up the required length?

Answer: 5 1/4 – 2 3/8 = 5 2/8 - 2 3/8 = 4 10/8 – 2 3/8 = 2 7/8

Task 6: You are working at an assisted living facility for older people who need help with cleaning and yard work. It takes you 3/4 hour to mow the lawn and 1/2 hour to edge and trim. Then you spend 50 minutes working in the vegetable garden. How many hours will you record in your work log?

Answer: 3/4 + 1/2 + 5/6 = 9/12 +6/12 + 10/12 = 25/12 = 2 1/12 hours or 2 hours 5 minutes

Task 7: Complete the Learner's Self Reflection checklist.

Answers will vary for each learner.

Performance Descriptors

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
A1.1	reads short texts to locate a single piece of information			
	decodes words and makes meaning of sentences in a single text			
	identifies the main idea in brief texts			
C2.2	calculates using numbers expressed as whole numbers, fractions, decimals and percentages			
	converts between units of time			
	makes simple estimates			
	interprets, represents and converts time using whole numbers, decimals, percentages, ratios and simple, common fractions (e.g. ½, ¼)			
	chooses and performs required operation(s); may make inferences to identify required operations			

Levels	Performance Descriptors	Needs Work	Completes task with support from practitioner	Completes task independently
	selects appropriate steps to reach solutions			
	uses strategies to check accuracy (e.g., estimating, using a calculator, repeating a calculation, using the reverse operation)			
E.1	sets short-term goals			
	identifies steps required to achieve goals			
	begins to monitor progress towards achieving goals			
	begins to identify barriers to achieving goals			
	begins to use a limited number of learning strategies			
	begins to identify ways to remember information and reinforce learning			
	uses feedback to improve performance			

This task: Was successfully completed ☐ Needs to be tried again ☐

Learner Comments:

Instructor (print): _____

Learner (print): _____