

Task Title: Using Fractions at Work

# OALCF Cover Sheet – Practitioner Copy

**Learner Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date Started: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Date Completed: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

|  |  |  |
| --- | --- | --- |
| **Goal Path:** | Employment | Apprenticeship |
| Secondary School | Post Secondary | Independence |

**Successful Completion:**  Yes No

**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:

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**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:

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**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 ❑

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# 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 |  |  |  |
|  | 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):

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