

# Varied Fluency

## Step 9: Fraction of an Amount 3

### National Curriculum Objectives:

Mathematics Year 3: (3F1b) [Recognise, find and write fractions of a discrete set of objects: unit fractions](#)

Mathematics Year 3: (3F1c) [Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators](#)

Mathematics Year 3: (3F10) [Solve problems that involve 3F1 - 3F4](#)

### Differentiation:

**Developing** Questions to support finding a fraction using known division facts to find fractions of an amount in a real life context. Using denominations divisible by 2, 5 and 10 up to 5 times the denominator.

**Expected** Questions to support finding a fraction using known division facts to find fractions of an amount in a real life context. Using denominators divisible by 2, 3, 4, 5, 8 and 10 up to 12 times the denominator.

**Greater Depth** Questions to support finding a fraction using known division facts to find fractions of an amount in a real life context. Using denominations divisible by 2, 3, 4, 5, 8 and 10 up to 12 times the denominator and beyond using known times tables facts including some conversions and mixed measurements.

More [Year 3 Fractions](#) resources.

Did you like this resource? Don't forget to [review](#) it on our website.

## Fraction of an Amount 3

1a. Complete the sentences. A bucket holds 10L of water.



Nadia fills one half of the bucket with water.

She fills \_\_\_\_\_ litres.

She needs \_\_\_\_\_ litres to fill the bucket.



VF

## Fraction of an Amount 3

1b. Complete the sentences. Sara buys her mum a 15ml bottle of perfume.



Sara's mum uses one fifth of the perfume.

She uses \_\_\_\_\_ millilitres.

There are \_\_\_\_\_ millilitres left to use.



VF

2a. Zara rides her bike 40km on Tuesday.

She stops after  $\frac{2}{10}$  of her journey to rest.



She has travelled 4km. True or false?



VF

2b. Zoe throws a javelin on a 20m field.

She throws the javelin  $\frac{2}{5}$  of the distance.



She has thrown it 8m. True or false?



VF

3a. Jacob has 50g of berries. He shares them with 9 of his friends.



What is the weight of the berries he eats?  
Circle the correct answer.



5g

4g

9g

VF

3b. Sam has 10g of sweets. He shares them with his friend.



What is the weight of the sweets Sam gets?  
Circle the correct answer.



3g

5g

6g

VF

4a. Add  $>$ ,  $<$  or  $=$  to make the equation correct.

$$\frac{2}{5} \text{ of } 15\text{km} \quad \square \quad \frac{2}{10} \text{ of } 40\text{km}$$



VF

4b. Add  $>$ ,  $<$  or  $=$  to make the equation correct.

$$\frac{2}{10} \text{ of } 20\text{m} \quad \square \quad \frac{1}{2} \text{ of } 8\text{m}$$



VF

## Fraction of an Amount 3

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5a. Complete the sentences. A rucksack holds 24L.



Stan fills one eighth of his rucksack with clothes.

He fills \_\_\_\_\_ litres.

There are \_\_\_\_\_ litres left in his bag.



VF

5b. Complete the sentences. Kia is filling a barrel that holds 21L



Kia fills two thirds of the barrel before her mum calls her.

She fills \_\_\_\_\_ litres.

There are \_\_\_\_\_ litres left to fill.



VF

6a. Kia is running in a 30km charity race.

She stops after  $\frac{2}{3}$  of her run.



She has completed 10km. True or false?



VF

6b. Alfie is swimming in a 24km race.

He stops after  $\frac{1}{2}$  of his journey.



He has swam 12km. True or false?



VF

7a. Max has 40g of cherries. He shares them with his sister and her two friends.



What is the weight of the cherries he eats? Circle the correct answer.



20g

10g

15g

VF

7b. A school has 48kg of bananas. They share them between eight classes.



What is the weight of the bananas each class gets? Circle the correct answer.



6kg

12kg

10kg

VF

8a. Add  $>$ ,  $<$  or  $=$  to make the equation correct.

$$\frac{3}{8} \text{ of } 56\text{m} \quad \square \quad \frac{2}{5} \text{ of } 55\text{m}$$



VF

8b. Add  $>$ ,  $<$  or  $=$  to make the equation correct.

$$\frac{5}{8} \text{ of } 32\text{ml} \quad \square \quad \frac{3}{4} \text{ of } 36\text{ml}$$



VF

## Fraction of an Amount 3

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9a. Complete the sentences. A water butt holds 200L of rain water.

The rain fills  $\frac{3}{4}$  of the water butt.

The rain fills \_\_\_\_\_ litres.

The gardener uses one fifth to water the plants.

\_\_\_\_\_ litres are used to water the plants.

There are \_\_\_\_\_ litres left in the water butt.



VF

9b. Complete the sentences. A recycling bin holds 45L.

Stan fills four fifths of the bin with rubbish.

He fills \_\_\_\_\_ litres.

The school use  $\frac{1}{4}$  for a recycling art project.

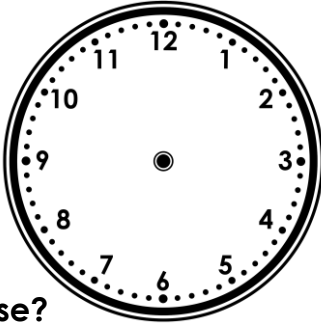
\_\_\_\_\_ litres are used for the art project.

There are \_\_\_\_\_ litres left in the bin.



VF

10a.  $\frac{2}{3}$  of an hour is 40 minutes.

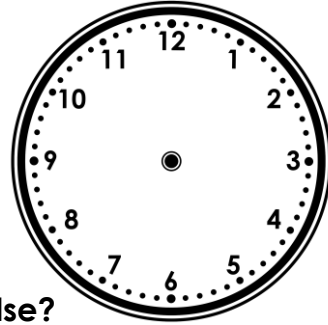


True or false?



VF

10b.  $\frac{1}{6}$  of an hour is 5 minutes.



True or false?



VF

11a. Makai has 42g of sweets. He eats 12g to begin with, then shares the rest with two of his friends.



What is the total weight of the sweets Makai eats? Circle the correct answer.



10g

15g

22g

VF

11b. Laura has 55g of marbles. She keeps her favourites which weigh 10g and shares the rest with four of her friends.



What is the weight of the marbles Laura has? Circle the correct answer.



9g

20g

19g

VF

12a. Add  $>$ ,  $<$  or  $=$  to make the equation correct.

$$\frac{5}{8} \text{ of } 24\text{cm} \quad \square \quad \frac{3}{4} \text{ of } 200\text{mm}$$



VF

12b. Add  $>$ ,  $<$  or  $=$  to make the equation correct.

$$\frac{6}{10} \text{ of } 110\text{ml} \quad \square \quad \frac{4}{5} \text{ of } 105\text{ml}$$



VF

Varied Fluency  
Fraction of an Amount 3

Developing

- 1a. 5, 5  
2a. False, she has travelled 8km.  
3a. 5g  
4a. <

Expected

- 5a. 3, 21  
6a. False, she has travelled 20km.  
7a. 10g  
8a. <

Greater Depth

- 9a. 150, 30, 120  
10a. True  
11a. 22g  
12a. =

Varied Fluency  
Fraction of an Amount 3

Developing

- 1b. 3, 12  
2b. True  
3b. 5g  
4b. =

Expected

- 5b. 14, 7  
6b. True  
7b. 6kg  
8b. <

Greater Depth

- 9b. 36, 9, 27  
10b. False,  $\frac{1}{6}$  of an hour is 10 minutes.  
11b. 19g  
12b. <