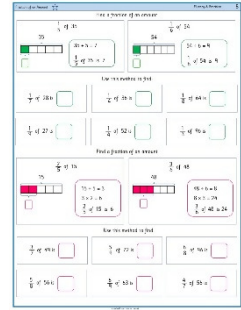


★ Fraction of an Amount

Children recap previous learning surrounding finding unit and non-unit fractions of amounts, quantities and measures. It is important that the concept is explored pictorially through bar models to support them to make sense of the abstract.

On this sheet, they will use visual representations such as the bar model to count a fraction of an amount.

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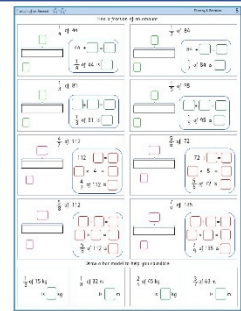


★★ Fraction of an Amount

Children recap previous learning surrounding finding unit and non-unit fractions of amounts, quantities and measures. It is important that the concept is explored pictorially through bar models to support them to make sense of the abstract.

On this sheet, they will use visual representations such as the bar model to count more complicated questions involving fraction of an amount.

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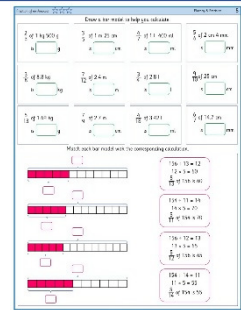


★★★ Fraction of an Amount

Children recap previous learning surrounding finding unit and non-unit fractions of amounts, quantities and measures. It is important that the concept is explored pictorially through bar models to support them to make sense of the abstract.

On this sheet, they will use their understanding of fraction of an amount to solve multi-step tasks.

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Reasoning & Problem Solving

Fraction of an Amount

Children continue working on their understanding of fractions.

They can show their understanding by solving reasoning tasks.

Fraction of an Amount

Write a problem that matches the bar model.

$\frac{3}{7}$ of a class are boys.
There are 16 girls in the class.
How many children are in the class?

Reasoning & Problem Solving

Find the area of each colour in the rectangle.

9 cm

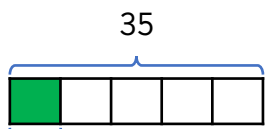
5 cm

What would happen if one of the red or green rectangles was changed to a blue?



Find a fraction of an amount.

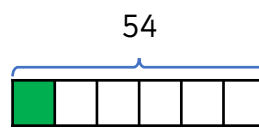
$\frac{1}{5}$ of 35



$$35 \div 5 = 7$$

$\frac{1}{5}$ of 35 is 7

$\frac{1}{6}$ of 54



$$54 \div 6 = 9$$

$\frac{1}{6}$ of 54 is 9

Use this method to find:

$\frac{1}{7}$ of 28 is

$\frac{1}{4}$ of 36 is

$\frac{1}{8}$ of 64 is

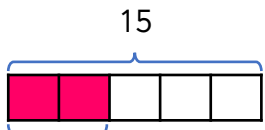
$\frac{1}{9}$ of 27 is

$\frac{1}{4}$ of 52 is

$\frac{1}{3}$ of 96 is

Find a fraction of an amount.

$\frac{2}{5}$ of 15

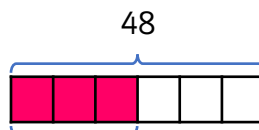


$$15 \div 5 = 3$$

$$3 \times 2 = 6$$

$\frac{2}{5}$ of 15 is 6

$\frac{3}{6}$ of 48



$$48 \div 6 = 8$$

$$8 \times 3 = 24$$

$\frac{3}{6}$ of 48 is 24

Use this method to find:

$\frac{3}{7}$ of 49 is

$\frac{5}{9}$ of 72 is

$\frac{6}{8}$ of 96 is

$\frac{5}{8}$ of 56 is

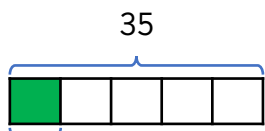
$\frac{6}{9}$ of 63 is

$\frac{4}{7}$ of 56 is



Find a fraction of an amount.

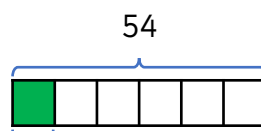
$\frac{1}{5}$ of 35



$$35 \div 5 = 7$$

$\frac{1}{5}$ of 35 is 7

$\frac{1}{6}$ of 54



$$54 \div 6 = 9$$

$\frac{1}{6}$ of 54 is 9

Use this method to find:

$\frac{1}{7}$ of 28 is

4

$\frac{1}{4}$ of 36 is

9

$\frac{1}{8}$ of 64 is

8

$\frac{1}{9}$ of 27 is

3

$\frac{1}{4}$ of 52 is

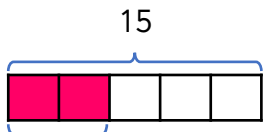
13

$\frac{1}{3}$ of 96 is

32

Find a fraction of an amount.

$\frac{2}{5}$ of 15

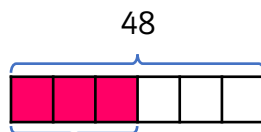


$$15 \div 5 = 3$$

$$3 \times 2 = 6$$

$\frac{2}{5}$ of 15 is 6

$\frac{3}{6}$ of 48



$$48 \div 6 = 8$$

$$8 \times 3 = 24$$

$\frac{3}{6}$ of 48 is 24

Use this method to find:

$\frac{3}{7}$ of 49 is

21

$\frac{5}{9}$ of 72 is

40

$\frac{6}{8}$ of 96 is

72

$\frac{5}{8}$ of 56 is

35

$\frac{6}{9}$ of 63 is

42

$\frac{4}{7}$ of 56 is

32



Find a fraction of an amount.

$\frac{1}{4}$ of 44

$44 \div \text{□} = \text{□}$

$\frac{1}{4}$ of 44 is

$\frac{1}{7}$ of 84

$84 \div \text{□} = \text{□}$

$\frac{1}{7}$ of 84 is

$\frac{1}{3}$ of 81

$\text{□} \div \text{□} = \text{□}$

$\frac{1}{3}$ of 81 is

$\frac{1}{5}$ of 95

$\text{□} \div \text{□} = \text{□}$

$\frac{1}{5}$ of 95 is

$\frac{4}{7}$ of 112

$112 \div \text{□} = \text{□}$

$\text{□} \times 4 = \text{□}$

$\frac{4}{7}$ of 112 is

$\frac{5}{6}$ of 72

$72 \div \text{□} = \text{□}$

$\text{□} \times 5 = \text{□}$

$\frac{5}{6}$ of 72 is

$\frac{5}{8}$ of 112

$\text{□} \div \text{□} = \text{□}$

$\text{□} \times \text{□} = \text{□}$

$\frac{5}{8}$ of 112 is

$\frac{7}{9}$ of 135

$\text{□} \div \text{□} = \text{□}$

$\text{□} \times \text{□} = \text{□}$

$\frac{7}{9}$ of 135 is

Draw a bar model to help you calculate:

$\frac{1}{3}$ of 15 kg

is kg

$\frac{1}{8}$ of 32 m

is m

$\frac{2}{5}$ of 45 kg

is kg

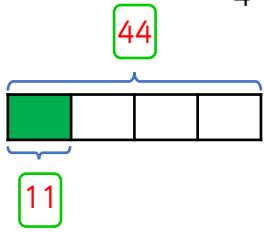
$\frac{3}{7}$ of 63 m

is m



Find a fraction of an amount.

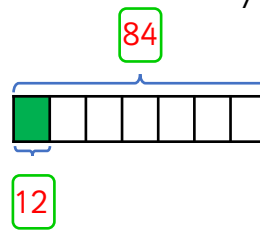
$\frac{1}{4}$ of 44



$$44 \div 4 = 11$$

$$\frac{1}{4} \text{ of } 44 \text{ is } 11$$

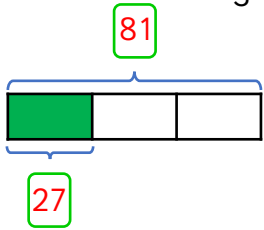
$\frac{1}{7}$ of 84



$$84 \div 7 = 12$$

$$\frac{1}{7} \text{ of } 84 \text{ is } 12$$

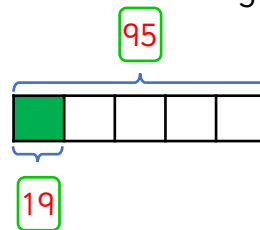
$\frac{1}{3}$ of 81



$$81 \div 3 = 27$$

$$\frac{1}{3} \text{ of } 81 \text{ is } 27$$

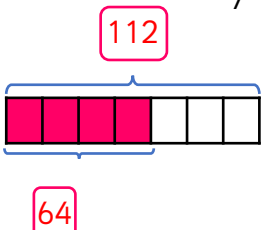
$\frac{1}{5}$ of 95



$$95 \div 5 = 19$$

$$\frac{1}{5} \text{ of } 95 \text{ is } 19$$

$\frac{4}{7}$ of 112

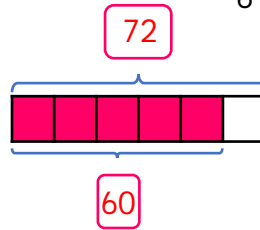


$$112 \div 7 = 16$$

$$16 \times 4 = 64$$

$$\frac{4}{7} \text{ of } 112 \text{ is } 64$$

$\frac{5}{6}$ of 72

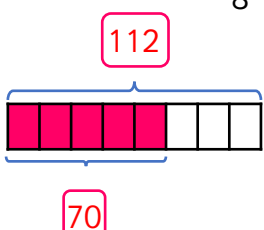


$$72 \div 6 = 12$$

$$12 \times 5 = 60$$

$$\frac{5}{6} \text{ of } 72 \text{ is } 60$$

$\frac{5}{8}$ of 112

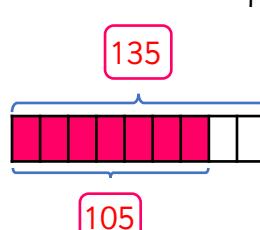


$$112 \div 8 = 14$$

$$14 \times 5 = 70$$

$$\frac{5}{8} \text{ of } 112 \text{ is } 70$$

$\frac{7}{9}$ of 135



$$135 \div 9 = 15$$

$$15 \times 7 = 105$$

$$\frac{7}{9} \text{ of } 135 \text{ is } 105$$

Draw a bar model to help you calculate:

$\frac{1}{3}$ of 15 kg

is 5 kg

$\frac{1}{8}$ of 32 m

is 4 m

$\frac{2}{5}$ of 45 kg

is 18 kg

$\frac{3}{7}$ of 63 m

is 27 m



Draw a bar model to help you calculate:

$$\frac{2}{3} \text{ of } 1 \text{ kg } 500 \text{ g}$$

is g

$$\frac{3}{5} \text{ of } 1 \text{ m } 25 \text{ cm}$$

is cm

$$\frac{4}{7} \text{ of } 1 \text{ l } 400 \text{ ml}$$

is ml

$$\frac{5}{6} \text{ of } 2 \text{ cm } 4 \text{ mm}$$

is mm

$$\frac{3}{8} \text{ of } 8.8 \text{ kg}$$

is kg

$$\frac{7}{12} \text{ of } 2.4 \text{ m}$$

is m

$$\frac{3}{4} \text{ of } 2.8 \text{ l}$$

is l

$$\frac{9}{10} \text{ of } 25 \text{ cm}$$

is cm

$$\frac{5}{13} \text{ of } 1.69 \text{ kg}$$

is g

$$\frac{7}{9} \text{ of } 2.7 \text{ m}$$

is cm

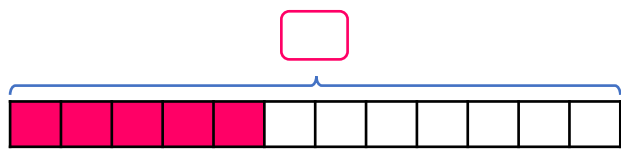
$$\frac{4}{18} \text{ of } 3.42 \text{ l}$$

is ml

$$\frac{6}{7} \text{ of } 14.7 \text{ cm}$$

is mm

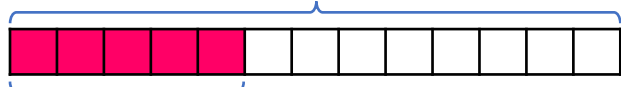
Match each bar model with the corresponding calculation.



$$156 \div 13 = 12$$

$$12 \times 5 = 60$$

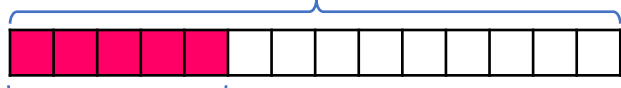
$$\frac{5}{13} \text{ of } 156 \text{ is } 60$$



$$154 \div 11 = 14$$

$$14 \times 5 = 70$$

$$\frac{5}{11} \text{ of } 154 \text{ is } 70$$



$$156 \div 12 = 13$$

$$13 \times 5 = 65$$

$$\frac{5}{12} \text{ of } 156 \text{ is } 65$$



$$154 \div 14 = 11$$

$$11 \times 5 = 55$$

$$\frac{5}{14} \text{ of } 154 \text{ is } 55$$



Draw a bar model to help you calculate:

$$\frac{2}{3} \text{ of } 1 \text{ kg } 500 \text{ g}$$

is **1000** g

$$\frac{3}{5} \text{ of } 1 \text{ m } 25 \text{ cm}$$

is **75** cm

$$\frac{4}{7} \text{ of } 1 \text{ l } 400 \text{ ml}$$

is **800** ml

$$\frac{5}{6} \text{ of } 2 \text{ cm } 4 \text{ mm}$$

is **20** mm

$$\frac{3}{8} \text{ of } 8.8 \text{ kg}$$

is **3.3** kg

$$\frac{7}{12} \text{ of } 2.4 \text{ m}$$

is **1.4** m

$$\frac{3}{4} \text{ of } 2.8 \text{ l}$$

is **2.1** l

$$\frac{9}{10} \text{ of } 25 \text{ cm}$$

is **22.5** cm

$$\frac{5}{13} \text{ of } 1.69 \text{ kg}$$

is **650** g

$$\frac{7}{9} \text{ of } 2.7 \text{ m}$$

is **210** cm

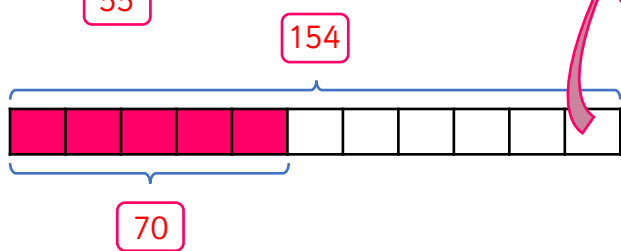
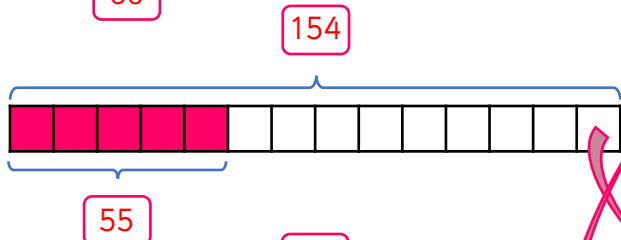
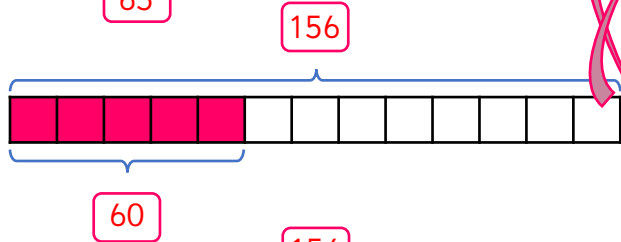
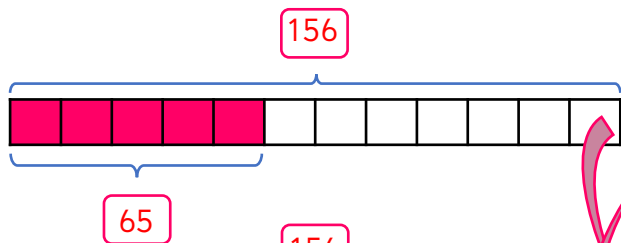
$$\frac{4}{18} \text{ of } 3.42 \text{ l}$$

is **760** ml

$$\frac{6}{7} \text{ of } 14.7 \text{ cm}$$

is **126** mm

Match each bar model with the corresponding calculation.



$$156 \div 13 = 12$$

$$12 \times 5 = 60$$

$$\frac{5}{13} \text{ of } 156 \text{ is } 60$$

$$154 \div 11 = 14$$

$$14 \times 5 = 70$$

$$\frac{5}{11} \text{ of } 154 \text{ is } 70$$

$$156 \div 12 = 13$$

$$13 \times 5 = 65$$

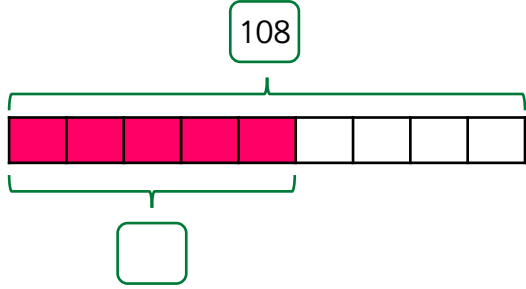
$$\frac{5}{12} \text{ of } 156 \text{ is } 65$$

$$154 \div 14 = 11$$

$$11 \times 5 = 55$$

$$\frac{5}{14} \text{ of } 154 \text{ is } 55$$

Write a problem that matches the bar model.

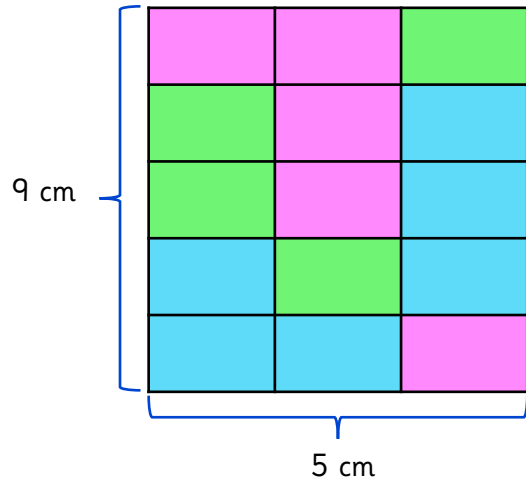


$\frac{3}{7}$ of a class are boys.

There are 16 girls in the class.

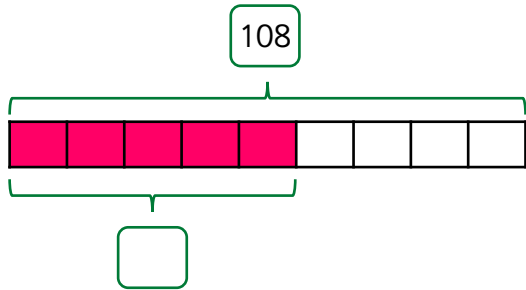
How many children are in the class?

Find the area of each colour in the rectangle.



What would happen if one of the pink or green rectangles were changed to a blue rectangle?

Write a problem that matches the bar model.

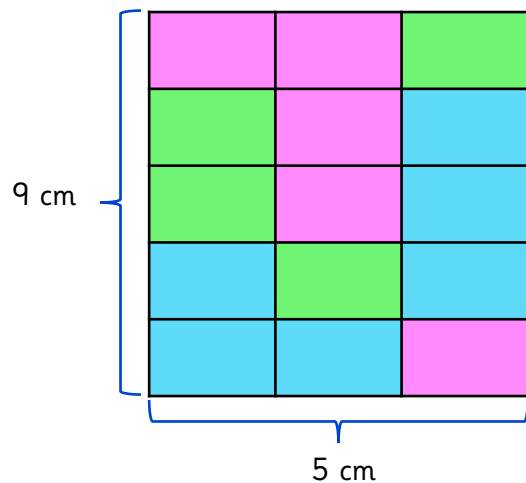


$\frac{3}{7}$ of a class are boys.

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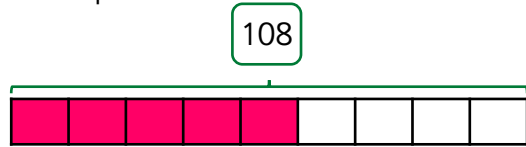
How many children are in the class?

Find the area of each colour in the rectangle.



What would happen if one of the pink or green rectangles were changed to a blue rectangle?

Write a problem that matches the bar model.



Possible response:
 There are 108 cars in a car park. $\frac{5}{9}$ of them are red.
 How many cars are red?
 How many cars are not red?

60

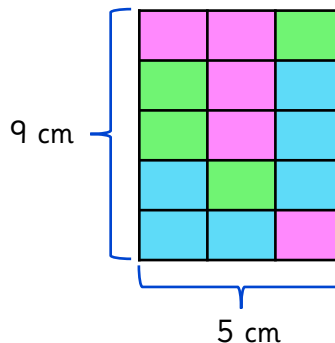
$\frac{3}{7}$ of a class are boys.

There are 16 girls in the class.

How many children are in the class?

There are 28 children in the class.

Find the area of each colour in the rectangle.



What would happen if one of the pink or green rectangles were changed to a blue?

Area of rectangle: $9 \times 5 = 45 \text{ cm}^2$.

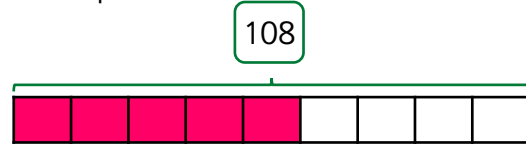
Blue: $\frac{6}{5}$ of 45 cm^2 is 18 cm^2 .

Pink: $\frac{4}{5}$ of 45 cm^2 is 15 cm^2 .

Green: $\frac{3}{5}$ of 45 cm^2 is 12 cm^2 .

Children need to show that this would impact both the blue and the other colour.

Write a problem that matches the bar model.



Possible response:
 There are 108 cars in a car park. $\frac{5}{9}$ of them are red.
 How many cars are red?
 How many cars are not red?

60

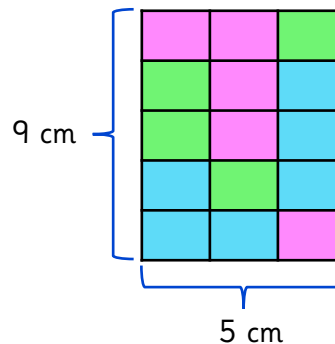
$\frac{3}{7}$ of a class are boys.

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There are 28 children in the class.

Find the area of each colour in the rectangle.



What would happen if one of the red or green rectangles were changed to a blue?

Area of rectangle: $9 \times 5 = 45 \text{ cm}^2$.

Blue: $\frac{6}{5}$ of 45 cm^2 is 18 cm^2 .

Pink: $\frac{4}{5}$ of 45 cm^2 is 15 cm^2 .

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Children need to show that this would impact both the blue and the other colour.