

★ Fraction of an Amount (3)

Children will apply their knowledge and understanding of fractions to solve problems in various contexts.

They recap and build their understanding of different measures.

On this sheet, they will work with simple measures in pounds, grams and minutes.

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This worksheet contains six problems involving simple measures:

- Problem 1:** Kim has £5. He wants to give half of his money to his brother. How much would his brother receive?
- Problem 2:** Mikaela has £75. She wants to divide her money between her three sisters. How much would each sister receive?
- Problem 3:** A bag of chocolate weighs 200 g. There are 4 children going to the cinema, each eating $\frac{1}{4}$ of the bag. What weight of chocolate will each child eat?
- Problem 4:** A bag of sweets weighs 400 g. There are 5 children going to the party, each eating $\frac{1}{5}$ of the bag. What weight of sweets will each child eat?
- Problem 5:** Find $\frac{1}{2}$ of 1 hour. Use the clock face to help you. 1 hour = minutes. $\frac{1}{2}$ of minutes = minutes.
- Problem 6:** Find $\frac{1}{3}$ of 1 hour. Use the clock face to help you. 1 hour = minutes. $\frac{1}{3}$ of minutes = minutes.

★★ Fraction of an Amount (3)

Children will apply their knowledge and understanding of fractions to solve problems in various contexts. They recap and build their understanding of different measures.

On this sheet, they will work with trickier questions, some of which are two-step.

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This worksheet contains six problems, some involving two-step calculations:

- Problem 1:** Kim has £5 and 80 pence. He wants to give half of his money to his brother. How much would his brother receive?
- Problem 2:** Mikaela has £75 and 80 pence. She wants to divide her money between her three sisters. How much would each sister receive?
- Problem 3:** A bag of chocolate weighs 200 g. You eat $\frac{1}{4}$ of the bag. What weight of chocolate did you eat?
- Problem 4:** A bag of sweets weighs 200 g. You divide the bag in equal parts and give $\frac{1}{5}$ of the bag. What weight of sweets did you give?
- Problem 5:** Find $\frac{1}{2}$ of 1 hour 30 minutes. Use the clock face to help you. 1 hour 30 minutes = minutes. $\frac{1}{2}$ of minutes = minutes.
- Problem 6:** Find $\frac{1}{3}$ of 1 hour 20 minutes. Use the clock face to help you. 1 hour 20 minutes = minutes. $\frac{1}{3}$ of minutes = minutes.

★★★ Fraction of an Amount (3)

Children will apply their knowledge and understanding of fractions to solve problems in various contexts.

On this sheet, they will solve multi-step questions that involve fractions of an amount of different measures.

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This worksheet contains six multi-step problems:

- Problem 1:** Michael has £4 and 60 pence. Sam has £5 and 10 pence. They add up their money and divide the total in equal shares. How much would each boy receive?
- Problem 2:** Mikaela has a string 2 m 10 cm long. She made $\frac{2}{5}$ of this string. How long is another part of string?
- Problem 3:** A bag of chocolate weighs 400 g. You eat $\frac{1}{4}$ of the bag on Monday and $\frac{1}{5}$ of the bag on Tuesday. How much of chocolate did you eat?
- Problem 4:** A bag of sweets weighs 400 g. You eat $\frac{1}{4}$ and give $\frac{1}{5}$ of the rest of the bag to the remaining sister. How much of sweets did you eat?
- Problem 5:** Find $\frac{1}{2}$ of 2 hours 40 minutes 24 seconds. Use the clock face to help you. $\frac{1}{2}$ of 2 hours = hours. $\frac{1}{2}$ of 40 minutes = minutes. $\frac{1}{2}$ of 24 seconds = seconds. $\frac{1}{2}$ of 2 hours 40 minutes 24 seconds = hours minutes seconds.
- Problem 6:** Find $\frac{1}{3}$ of 2 hours 40 minutes 24 seconds. Use the clock face to help you. $\frac{1}{3}$ of 2 hours = hours. $\frac{1}{3}$ of 40 minutes = minutes. $\frac{1}{3}$ of 24 seconds = seconds. $\frac{1}{3}$ of 2 hours 40 minutes 24 seconds = hours minutes seconds.

Reasoning & Problem Solving

Fraction of an Amount (3)

Children continue working on their understanding of fractions of an amount in different measures by answering reasoning tasks.

This reasoning and problem-solving worksheet contains two tasks:

- Task 1:** Mo makes 3 rugby shirts. Each rugby shirt uses 140 cm of material. He has a 560 cm roll of material. How much material is left after making the 3 shirts? What fraction of the original roll is left over?
- Task 2:** Alex and Eva share a bottle of lemonade. Alex drinks $\frac{4}{5}$ of the lemonade. Eva drinks 250 ml of the lemonade. One sixth of the lemonade is left in the bottle. How much did Alex drink? Which fraction of the bottle did Eva drink?



Ron has £8.

He wants to give half of his money to his brother.

How much would his brother receive?



Melanie has £15.

She wants to divide her money between her three sisters.

How much would each sister receive?



A bag of chocolates weighs 160 g.

There are 4 children going to the cinema,
each receives $\frac{1}{4}$ of the bag.

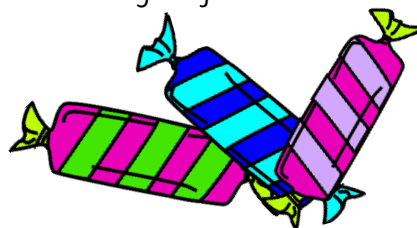
What weight of chocolates will each child receive?



A bag of sweets weighs 400 g.

There are 5 children going to the party,
each receives $\frac{1}{5}$ of the bag.

What weight of sweets will each child receive?

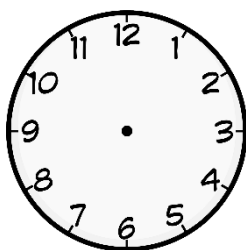


Find $\frac{1}{3}$ of 1 hour.

Use the clock face to help you.

1 hour = minutes,

$\frac{1}{3}$ of minutes = minutes.



Find $\frac{2}{5}$ of 1 hour.

Use the clock face to help you.

1 hour = minutes,

$\frac{1}{5}$ of minutes = minutes.

$\frac{2}{5}$ of minutes = minutes.



Ron has £8.

He wants to give half of his money to his brother.

How much would his brother receive?



Half of £8 is £4

£4

Melanie has £15.

She wants to divide her money between her three sisters.

How much would each sister receive?



One third of £15 is £5

£5

A bag of chocolates weighs 160 g.

There are 4 children going to the cinema, each receives $\frac{1}{4}$ of the bag.

What weight of chocolates will each child receive?



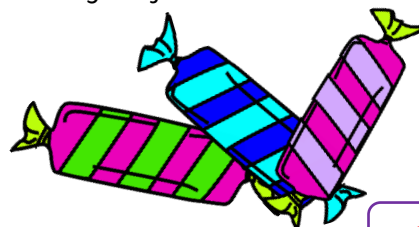
40 g

$\frac{1}{4}$ of 160 g is 40 g

A bag of sweets weighs 400 g.

There are 5 children going to the party, each receives $\frac{1}{5}$ of the bag.

What weight of sweets will each child receive?



$\frac{1}{5}$ of 400 g is 80 g

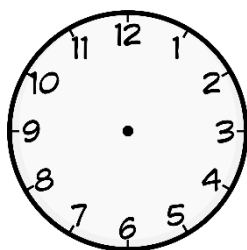
80 g

Find $\frac{1}{3}$ of 1 hour.

Use the clock face to help you.

1 hour = 60 minutes,

$\frac{1}{3}$ of 60 minutes = 20 minutes.



Find $\frac{2}{5}$ of 1 hour.

Use the clock face to help you.

1 hour = 60 minutes,

$\frac{1}{5}$ of 60 minutes = 12 minutes.

$\frac{2}{5}$ of 60 minutes = 24 minutes.



Ron has £6 and 80 pennies.

He wants to give half of his money to his brother.

How much would his brother receive?



Melanie has £30 and 30 pennies.

She wants to divide her money between her three sisters.

How much would each sister receive?



A bag of chocolates weighs 250 g.

Tom ate $\frac{3}{5}$ of the bag.

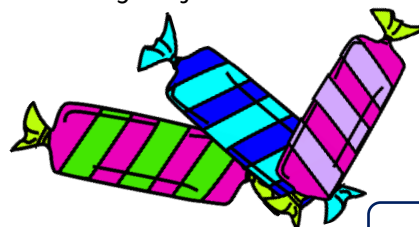
What weight of chocolates did Tom eat?



A bag of sweets weighs 360 g.

Ben divides them in 6 equal parts and puts in $\frac{5}{6}$ of the bag.

What weight of sweets does he have left?

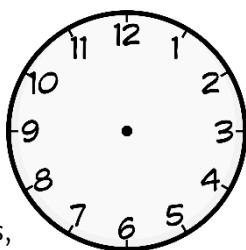


Find $\frac{1}{3}$ of 1 hour 30 minutes.

Use the clock face to help you.

1 hour 30 minutes = minutes,

$\frac{1}{3}$ of minutes = minutes.



Find $\frac{3}{10}$ of 1 hour 20 minutes.

Use the clock face to help you.

1 hour 20 minutes = minutes,

$\frac{1}{10}$ of minutes = minutes.

$\frac{3}{10}$ of minutes = minutes.



Ron has £6 and 80 pennies.

He wants to give half of his money to his brother.

How much would his brother receive?



Half of
£6 and 80 pennies is
£3 and 40 pennies

£3 and 40p

Melanie has £30 and 30 pennies.

She wants to divide her money between her three sisters.

How much would each sister receive?

One third of
£30 = £10
One third of 30p = 10p

£10 and 10p



A bag of chocolates weighs 250 g.

Tom ate $\frac{3}{5}$ of the bag.

What weight of chocolates did Tom eat?



150 g

$\frac{3}{5}$ of 250 g is 150 g

A bag of sweets weighs 360 g.

Ben divides them in 6 equal parts and puts in $\frac{5}{6}$ of the bag.

What weight of sweets does he have left?



$\frac{5}{6}$ of 360 g is 300 g
subtract from
360 = 60 g left.

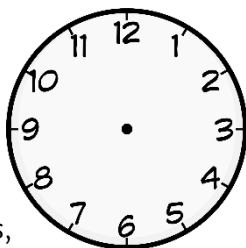
60 g

Find $\frac{1}{3}$ of 1 hour 30 minutes.

Use the clock face to help you.

1 hour 30 minutes = 90 minutes,

$\frac{1}{3}$ of 90 minutes = 30 minutes.



Find $\frac{3}{10}$ of 1 hour 20 minutes.

Use the clock face to help you.

1 hour 20 minutes = 80 minutes,

$\frac{1}{10}$ of 80 minutes = 8 minutes.

$\frac{3}{10}$ of 80 minutes = 24 minutes.



Ron has £4 and 45 pennies.
Sam has £5 and 15 pennies.
They add up their money and decide to divide them in equal amounts.

How much would each boy receive?



Melanie has a string 2 m 10 cm long.

She needs $\frac{3}{7}$ of this string.

How much is needed?



A bag of chocolates weighs 420 g.

Tom ate $\frac{1}{6}$ of the bag on Monday

and $\frac{2}{7}$ of the bag on Tuesday.

How much of chocolates did Tom eat?

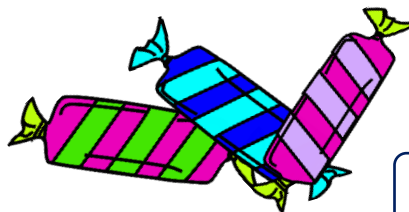


A bag of sweets weighs 810 g.

Ben eats $\frac{1}{9}$ and puts the rest in the bag.

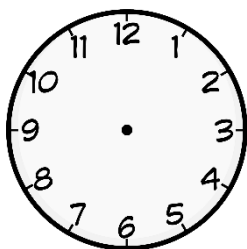
Then he eats $\frac{3}{8}$ of the remaining sweets.

How much has he eaten in grams?



Find $\frac{2}{3}$ of 2 hours 45 minutes 24 seconds.

Use the clock face to help you.



$\frac{1}{3}$ of 2 hours = minutes, $\frac{2}{3}$ of 2 hours = minutes,

$\frac{1}{3}$ of 45 minutes = minutes, $\frac{2}{3}$ of 45 minutes = minutes,

$\frac{1}{3}$ of 24 seconds = seconds, $\frac{2}{3}$ of 24 seconds = seconds.

$\frac{2}{3}$ of 2 hours 45 minutes 24 seconds = hour minutes seconds.



Ron has £4 and 45 pennies.
Sam has £5 and 15 pennies.
They add up their money and decide to divide them in equal amounts.
How much would each boy receive?

£4 and 45p + £5 and 15p =
£9 and 60p

Half of £9 and 60 pennies
is £4 and 80 pennies



£4 and 80p

Melanie has a string 2 m 10 cm long.

She needs $\frac{3}{7}$ of this string.

How much is needed?

$\frac{3}{7}$ of 2 m 10 cm
is 90 cm

90 cm



A bag of chocolates weighs 420 g.

Tom ate $\frac{1}{6}$ of the bag on Monday

and $\frac{2}{7}$ of the bag on Tuesday.

How much of chocolates did Tom eat?



190 g

$\frac{1}{6}$ of 420 g is 70 g,
 $\frac{2}{7}$ of 420 g is 120 g,
70 g + 120 g = 190 g

A bag of sweets weighs 810 g.

Ben eats $\frac{1}{9}$ and puts the rest in the bag.

Then he eats $\frac{3}{8}$ of the remaining sweets.

How much has he eaten in grams?

$\frac{1}{9}$ of 810 g is 90 g,

810 g - 90 g =
720 g,

$\frac{3}{8}$ of 720 g is 270 g,

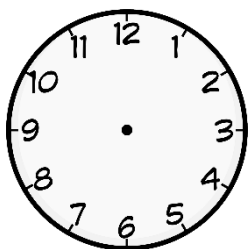
90 g + 270 g = 360 g

360 g



Find $\frac{2}{3}$ of 2 hours 45 minutes 24 seconds.

Use the clock face to help you.



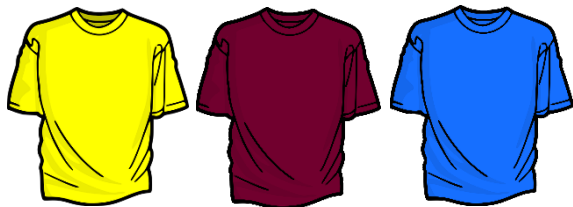
$\frac{1}{3}$ of 2 hours = 40 minutes, $\frac{2}{3}$ of 2 hours = 80 minutes,

$\frac{1}{3}$ of 45 minutes = 15 minutes, $\frac{2}{3}$ of 45 minutes = 30 minutes,

$\frac{1}{3}$ of 24 seconds = 8 seconds, $\frac{2}{3}$ of 24 seconds = 16 seconds.

$\frac{2}{3}$ of 2 hours 45 minutes 24 seconds = 1 hour 50 minutes 16 seconds.

Mo makes 3 rugby shirts.



Each rugby shirt uses 140 cm of material.

He has a 560 cm roll of material.

How much material is left after making the 3 shirts?

What fraction of the original roll is left over?

Alex and Eva share a bottle of lemonade.

Alex drinks $\frac{4}{6}$ of the lemonade.

Eva drinks 250 ml of the lemonade.

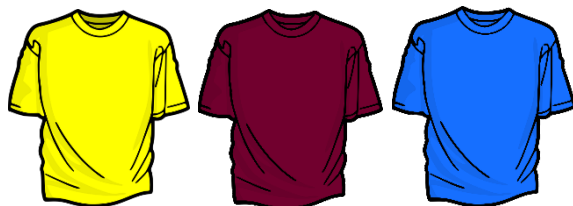
One sixth of the lemonade is left in the bottle.

How much did Alex drink?

Which fraction of the bottle did Eva drink?



Mo makes 3 rugby shirts.



Each rugby shirt uses 140 cm of material.

He has a 560 cm roll of material.

How much material is left after making the 3 shirts?

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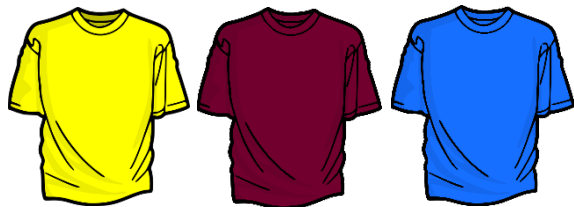
One sixth of the lemonade is left in the bottle.

How much did Alex drink?

Which fraction of the bottle did Eva drink?



Mo makes 3 rugby shirts.



Each rugby shirt uses 140 cm of material.

He has a 560 cm roll of material.

How much material is left after making the 3 shirts? **140 cm is left**

What fraction of the original roll is left over?
This is $\frac{1}{4}$ of his original roll of material

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Alex and Eva share a bottle of lemonade.

Alex drinks $\frac{4}{6}$ of the lemonade.

Eva drinks 250 ml of the lemonade.

One sixth of the lemonade is left in the bottle.

How much did Alex drink?

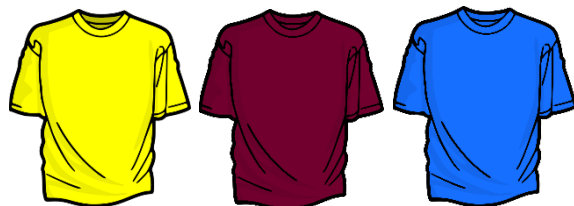
Alex drank 1 l of lemonade.

Which fraction of the bottle did Eva drink?

Eva drank one sixth of the juice.



Mo makes 3 rugby shirts.



Each rugby shirt uses 140 cm of material.

He has a 560 cm roll of material.

How much material is left after making the 3 shirts? **140 cm is left**

What fraction of the original roll is left over?
This is $\frac{1}{4}$ of his original roll of material

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Alex and Eva share a bottle of lemonade.

Alex drinks $\frac{4}{6}$ of the lemonade.

Eva drinks 250 ml of the lemonade.

One sixth of the lemonade is left in the bottle.

How much did Alex drink?

Alex drank 1 l of lemonade.

Which fraction of the bottle did Eva drink?

Eva drank one sixth of the juice.

