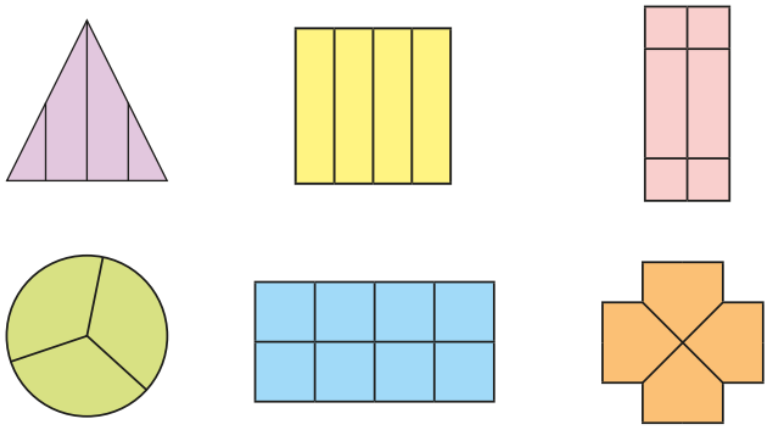
Week 1

Year 3 Weekly Maths Challenge

Last Term

Circle the shapes that have been split into equal parts



Previous learning

Write <, > or = to make the statements correct.

a) 1 kg ◯ 1,000 g

b) 2 kg and 100 g ◯ 2 kg and 700 g

c) 5 kg and 200 g ◯ 1 kg and 200 g

Current learning

Work out the additions. Use the bar model to help you.

a)

$\frac{1}{3} + \frac{1}{3} =$

b)

$\frac{1}{5} + \frac{1}{5} =$

We are learning next

Complete the calculati
to match the bar mod

a)

$\frac{1}{6} + \square = \frac{6}{6}$ $\frac{1}{6} + \square = 1$

b)

$\frac{3}{7} + \square = \frac{7}{7}$ $\frac{3}{7} + \square = 1$

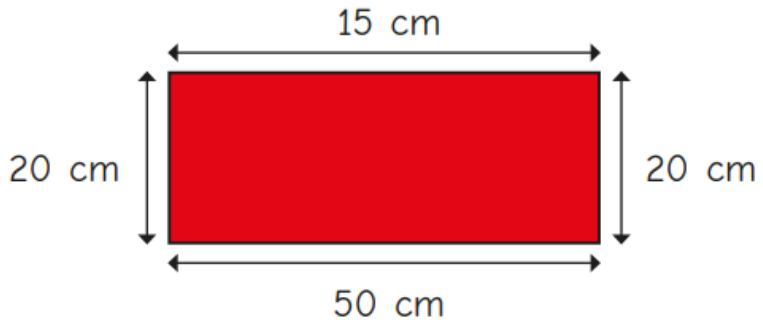
Week 2

Year 3 Weekly Maths Challenge

Last Term

Tiny is working out the perimeter of a rectangle.

Tiny measures the lengths of all four sides and labels the rectangle.

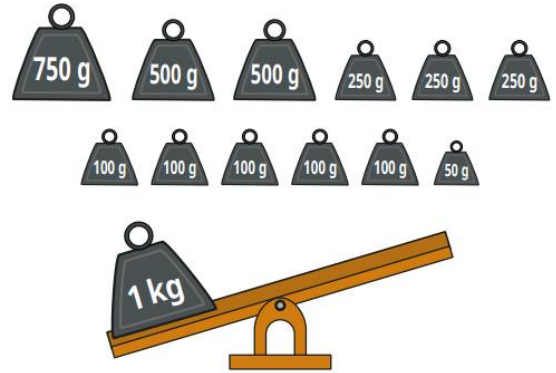


How do you know that Tiny's measurements are wrong?

Previous learning

Max wants to balance the scale.

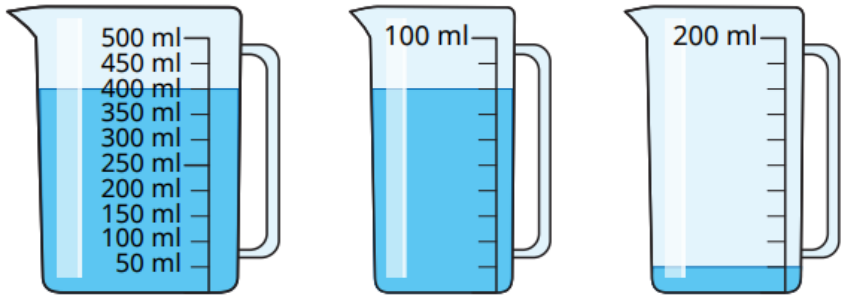
What weights could he use?



Find as many possibilities as you can.

Current learning

- What is the volume of water in each jug?



We are learning next

- Fill in the missing numerators.
  - $\frac{1}{5}+\frac{1}{5}+\frac{1}{5}=\frac{\square}{5}$
  - $\frac{1}{7}+\frac{4}{7}=\frac{\square}{7}$
  - $\frac{4}{7}=\frac{1}{7}+\frac{\square}{7}$
  - $\frac{2}{5}+\frac{1}{5}=\frac{\square}{5}$
  - $\frac{1}{7}+\frac{\square}{7}=\frac{6}{7}$
  - $\frac{3}{7}=\frac{1}{7}+\frac{\square}{7}$

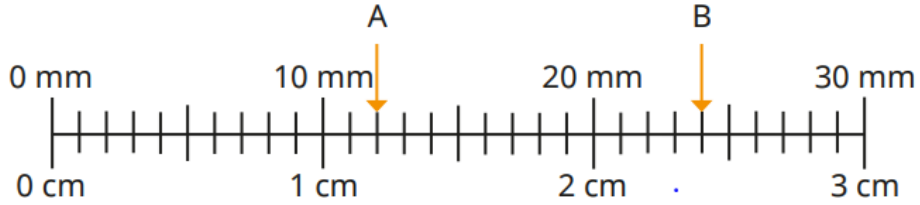
Week 3

Year 3 Weekly Maths Challenge

Last Term

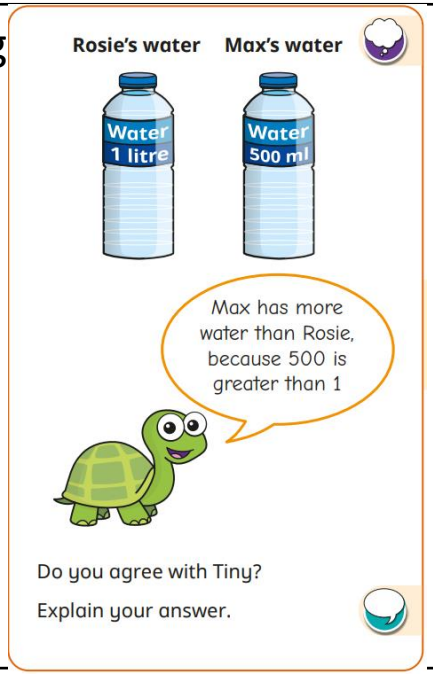
What measurements are the arrows pointing to?

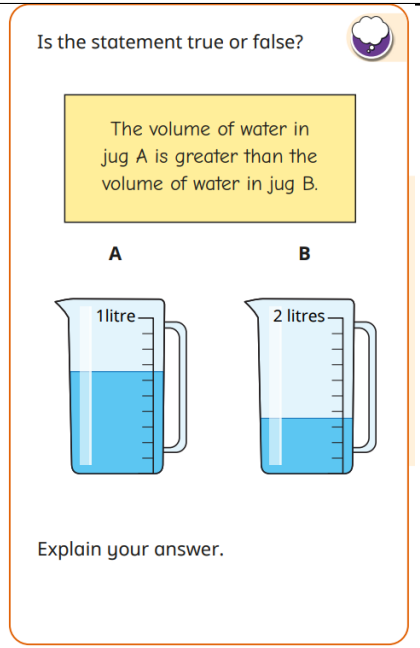
Complete the sentences.



- A = _____ cm and _____ mm A = _____ mm
- B = _____ cm and _____ mm B = _____ mm

Previous learning





Current learning

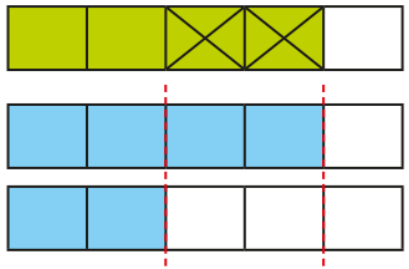
Tiny is working out $\frac{4}{7} + \frac{2}{7}$

The answer is $\frac{6}{14}$

Do you agree with Tiny?

Explain your answer.

Scott and Dani are working out $\frac{4}{5} - \frac{2}{5}$



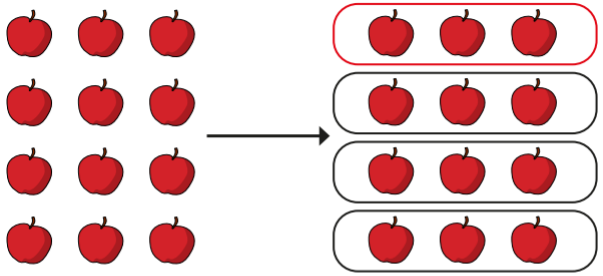
They both say that the answer is $\frac{2}{5}$

They are both correct.

Explain how they each worked it out.

We are learning next

Use the picture to complete the sentences.



The whole is 12 apples.

The whole is divided into _____ equal parts.

Each part is _____ of the whole.

$\frac{1}{4}$ of _____ apples is _____ apples.

Week 4

Year 3 Weekly Maths Challenge

Last Term

Use the place value chart and counters to work out 45 × 3

Tens	Ones
10 10 10 10	1 1 1 1 1
10 10 10 10	1 1 1 1 1
10 10 10 10	1 1 1 1 1

4 tens × 3 = _____ tens

5 ones × 3 = _____ ones

_____ + _____ = _____

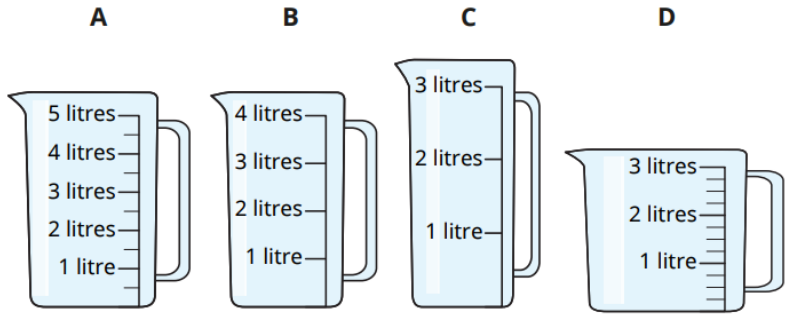
45 × 3 = _____

Use a place value chart and base 10 to work out the multiplications.

13 × 4	23 × 4	14 × 8	25 × 3

Previous learning

Tommy needs to measure 2 litres and 350 ml as accurately as possible using these jugs.



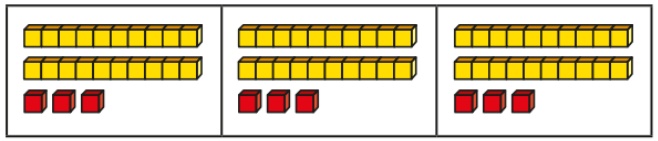
Which jug do you think will be easiest to use?

Which do you think will be hardest?

Explain your reasons.

Current learning

- Amir uses a bar model and base 10 to find $\frac{1}{3}$ of 69



=

Use Amir's method to find the fractions of the amounts.

=

$\frac{1}{2}$ of 60	$\frac{1}{3}$ of 36	$\frac{1}{3}$ of 96
$\frac{1}{4}$ of 60	$\frac{1}{3}$ of 72	$\frac{1}{8}$ of 96

We are learning next

Match the coins and notes to the amounts.



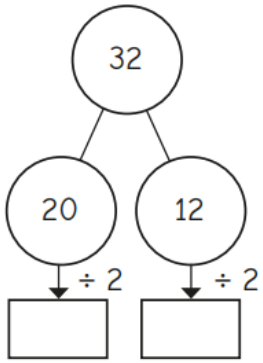

fifteen pounds	fifteen pence	fifty pounds	fifty pence

Week 5

Year 3 Weekly Maths Challenge

Last Term

Annie uses a part-whole model to work out 32 ÷ 2



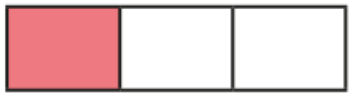
32 ÷ 2 = _____

Why did Annie partition 32 into 20 and 12?

Complete Annie's workings.

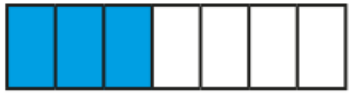
Previous learning

Use the bar models to complete the number sentences.



$\frac{1}{3}$ + _____ = 1

$\frac{3}{4}$ + _____ = 1



$\frac{3}{7}$ + _____ = 1

Current learning

Here are some notes and coins.

Choose the fewest number of notes and coins needed to make each amount.

£15 and 75p	38p	£7 and 80p	£55 and 70p

We are learning next

Here are some coins.

How many groups of 100 pence are there?

How many pounds do you have?

How many pence are left?

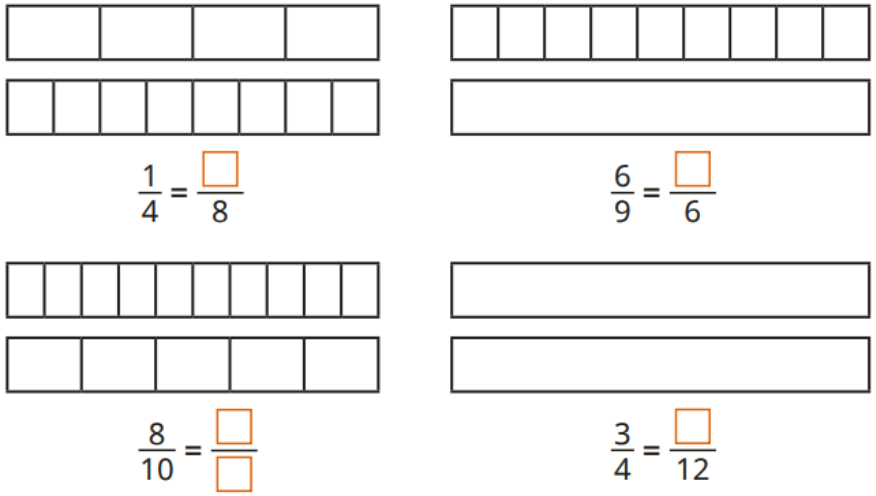
There is £_____ and _____p.

Week 6

Year 3 Weekly Maths Challenge

Last Term

Use the bar models to find the equivalent fractions.



$\frac{1}{4} = \frac{\square}{8}$

$\frac{6}{9} = \frac{\square}{6}$

$\frac{8}{10} = \frac{\square}{\square}$

$\frac{3}{4} = \frac{\square}{12}$

Previous learning

How many pence are shown in each amount?

Current learnin

An ice cream costs £1 and 60p.

Esther pays with a £5 note.

How much change will she receive?

Nijah buys a bottle of water for £1 and 20p.

She pays with a £2 coin.

How much change does she get?

Dora buys a bag of pears.

She pays with a £2 coin and gets this change.

We are learning next

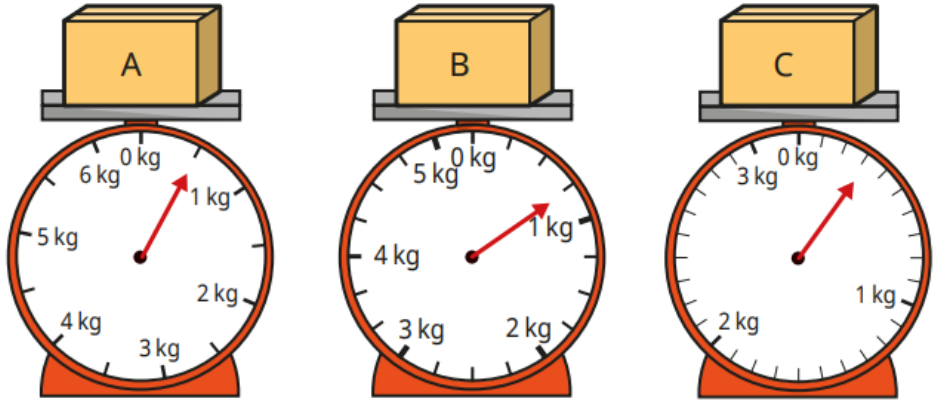
- What time is shown on each clock?

Week 7

Year 3 Weekly Maths Challenge

Last Term

- Work out the mass of each box.



Previous learning

There is a £10 note and three coins, so that is 10 pounds and 3 pence.

Is Tiny correct?

Explain your answer.

The children have some coins.

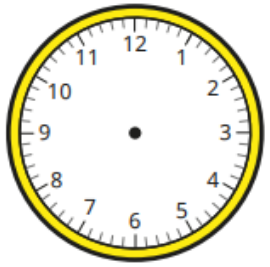
- Esther has five coins.
- Kim has four coins.
- Brett has three coins.
- Nijah has two coins.

They each have 202p.

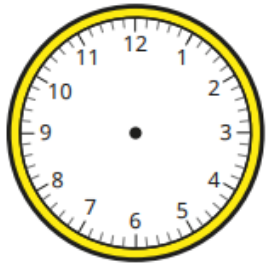
Which coins could they have?

Current learning

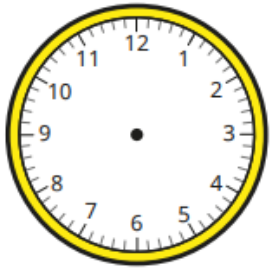
Draw the hands on the clocks to show the times.



8 minutes past 12



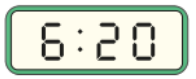
4 minutes to 4



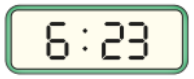
17 minutes past 5

We are learning next

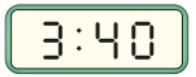
Complete the times shown on each clock.



_____ minutes past 6

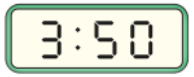


_____ minutes past _____



_____ minutes past _____

_____ minutes to _____



_____ minutes past _____

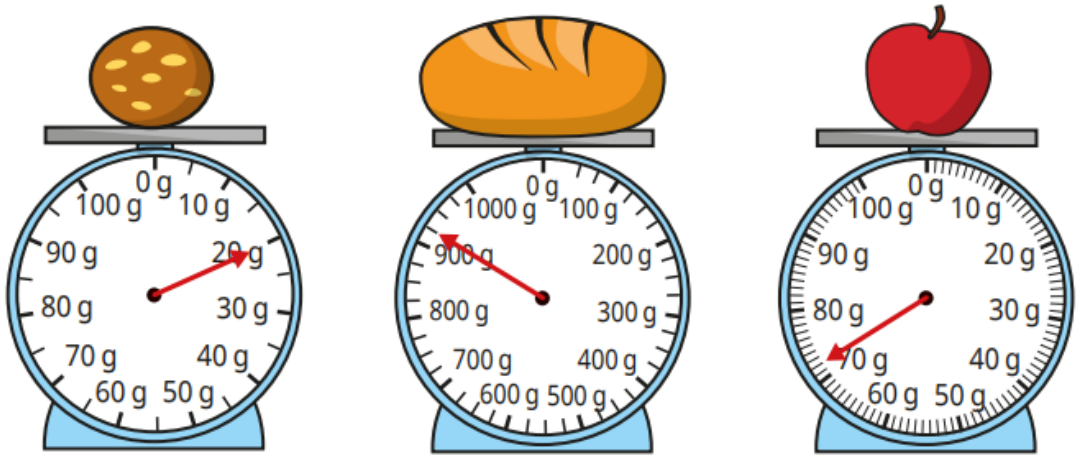
_____ minutes to _____

Week 8

Year 3 Weekly Maths Challenge

Last Term

- What is the mass of each object?



Previous learning

How much money does each person have?

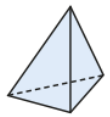
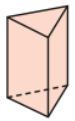
Dexter

Annie

Eva

Ron

Current learning

3-D shape	Number of edges	Number of faces	Number of vertices	Number of curved surfaces
				
				
				

We are learning next

Match the numbers to the Roman numerals.

1	2	3	4	5	6	10	12

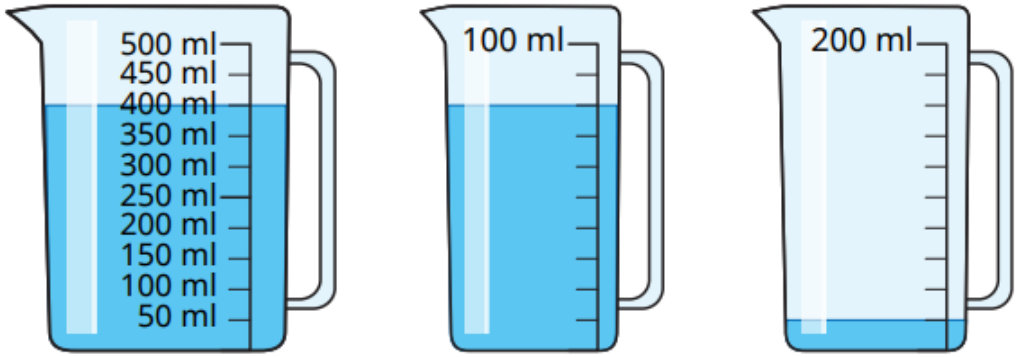
III	V	XII	X	II	IV	I	VI

Week 9

Year 3 Weekly Maths Challenge

Last Term

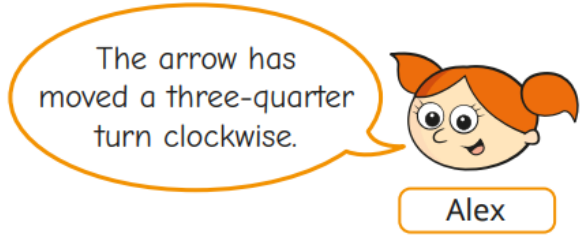
What is the volume of water in each jug?

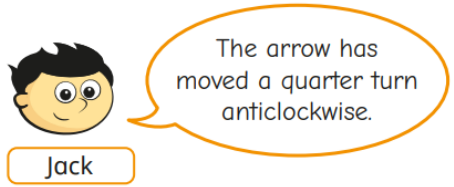


Previous learning

The arrow on a spinner starts in this position.

After making a turn, it ends in this position.



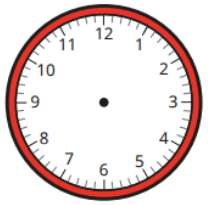


Who do you agree with?

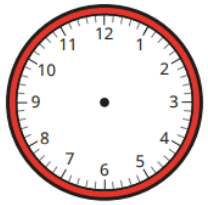
Explain your answer.

Current learning

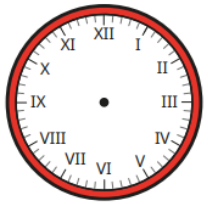
Draw hands to show the time on each clock.



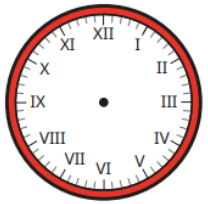
3 o'clock



half past 4



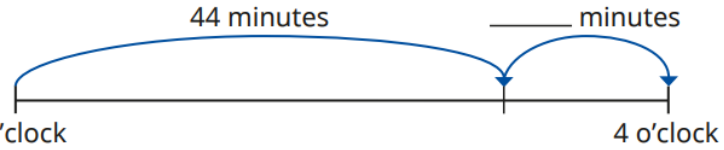
11 o'clock



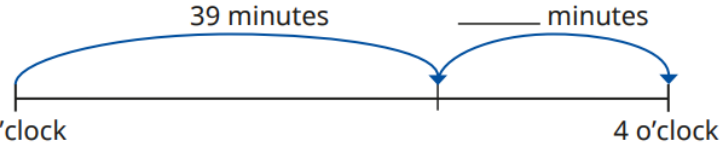
half past 5

We are learning next

Complete the number lines and sentences.



44 minutes past 3 is the same as _____ minutes to 4

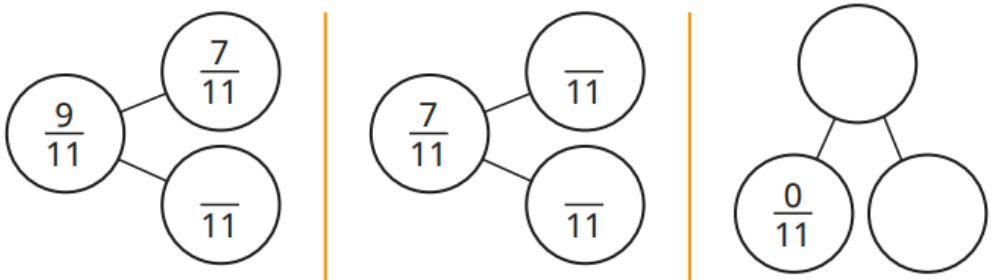


39 minutes past 3 is the same as _____ minutes to 4

Week 10

Year 3 Weekly Maths Challenge

Last Term



$\frac{9}{11} - \frac{7}{11} = \frac{\square}{11}$

$\frac{9}{11} - \frac{\square}{11} = \frac{7}{11}$

$\frac{7}{11} - \frac{\square}{11} = \frac{\square}{11}$

$\frac{7}{11} - \frac{\square}{11} = \frac{\square}{11}$

$\frac{\square}{11} - \frac{0}{11} = \frac{\square}{11}$

$\frac{\square}{11} - \frac{\square}{11} = \frac{0}{11}$

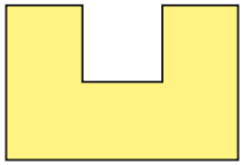
Previous learning

Create a right-angle checker like this one.

Use your right-angle checker to find right angles in your classroom or school.

Draw at least three right angles that you have seen.

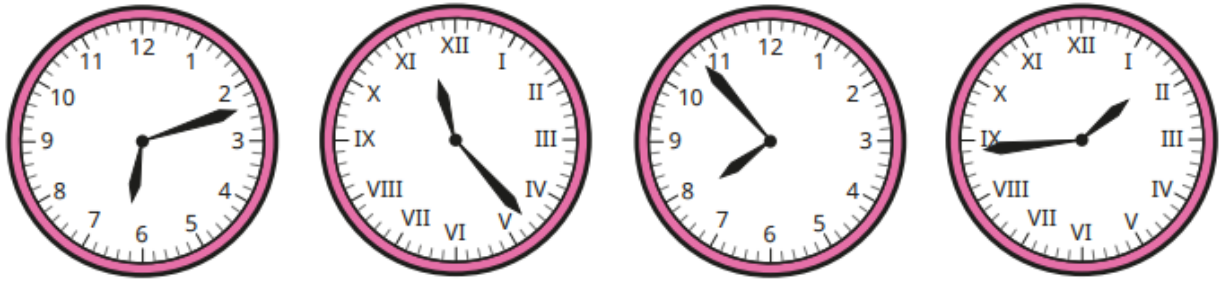
There are six right angles inside this shape.



Use the symbol for a right angle to show them on the shape.

Current learning

Write the times shown on each clock.



We are learning next

Complete the sentences.

There are _____ days in a week.

There are _____ months in a year.

There are _____ days in a non-leap year.

There are _____ days in a leap year.

Leap years happen every _____ years.

Use a calendar to help you answer the question.

How many days are in each month in a normal calendar year?

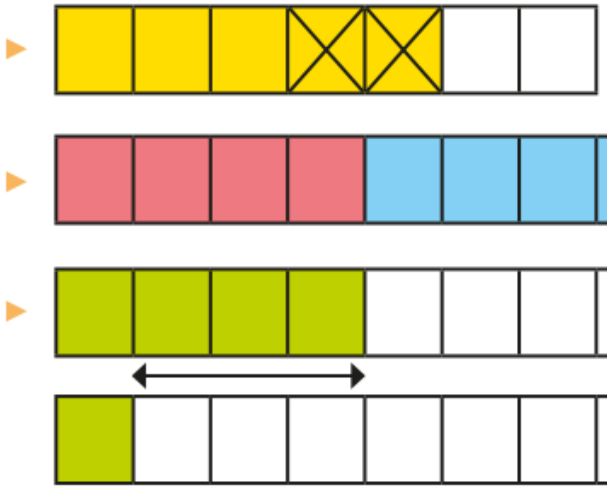
January	May	September
February	June	October
March	July	November
April	August	December

Week 11

Year 3 Weekly Maths Challenge

Last Term

Use the models to complete the calculations.



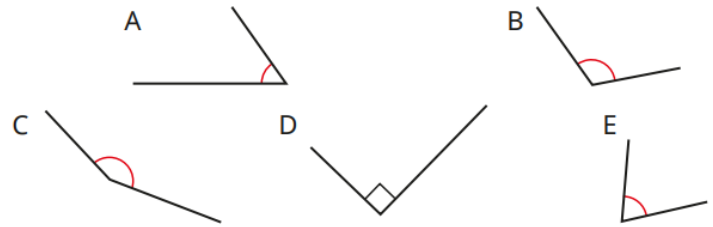
$\frac{5}{7} - \frac{\square}{7} = \frac{\square}{7}$

$\frac{\square}{9} - \frac{\square}{9} = \frac{4}{9}$

$\frac{4}{8} - \frac{\square}{8} = \frac{\square}{8}$

Previous learning

Sort the angles into the table.



Less than a right angle	Equal to a right angle	Greater than a right angle

Current learning

Complete the statements.

a) 2 minutes and 17 seconds = ☐ seconds

b) 5 minutes and 12 seconds = ☐ seconds

c) 4 minutes and 42 seconds = ☐ seconds

d) 3 minutes and ☐ seconds = 199 seconds

We are learning next

Huan gets up at 7 o'clock in the morning and goes to bed at 7 o'clock at night.

This means that Huan is awake for a full day.

Explain Kim's mistake.

How long is Huan awake for?

Dexter and Jo go to school for 6 hours a day.

Dexter

We will spend 180 hours at school in September.

We will spend less than 180 hours at school in September.

Jo

Who is correct?

Explain your answer.

Week 12

Year 3 Weekly Maths Challenge

Last Term

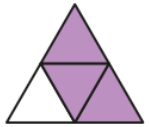
Complete the sentences.

$\frac{4}{7}$ of the shape is shaded.

$\frac{\square}{7}$ of the shape is not shaded.

$\frac{\square}{8}$ of the shape is shaded.

$\frac{\square}{\square}$ of the shape is not shaded.

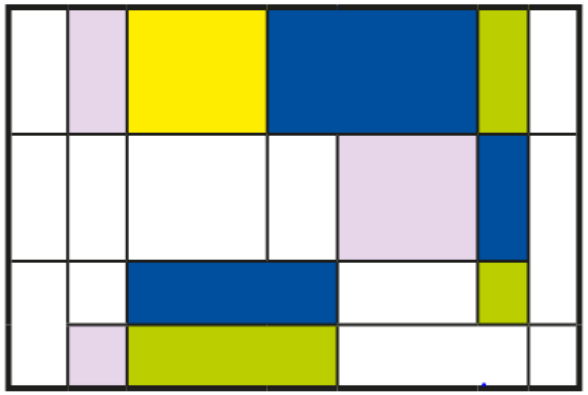


$\frac{\square}{\square}$ of the shape is shaded.

$\frac{\square}{\square}$ of the shape is not shaded.

Previous learning

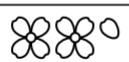
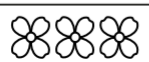
How many horizontal and vertical lines can you see in this picture?



Current learning

Amir and Brett are looking for different kinds of flowers in the park.

Here is what they found.

Flower	Number found
dandelion	
rose	
tulip	
daisy	

Key

 = 4 flowers

What kind of flower did they find the most of?

How many more daisies did they find than roses?

Which kind of flower did they find 14 of?

How many tulips did they find?

We are learning next

Whitney draws a pictogram to show how many chocolate eggs each class won at the school fair.

Key  = 5 eggs

Class	Number of eggs
1	
2	
3	
4	
5	
6	

Tom shows the same information in another pictogram.

In his key, he uses a picture of one egg to represent 10 eggs.

How many eggs does Tom need to draw for Class 6?

Week 13

Year 3 Weekly Maths Challenge

Last Term

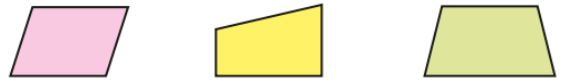
$\frac{1}{2}$ of 60	$\frac{1}{3}$ of 36	$\frac{1}{3}$ of 96
$\frac{1}{4}$ of 60	$\frac{1}{3}$ of 72	$\frac{1}{8}$ of 96

Previous learning

- Which pairs of lines are parallel?

- Draw a line that is parallel to this one.

- Use arrows to show the parallel lines in the shapes.



Current learning

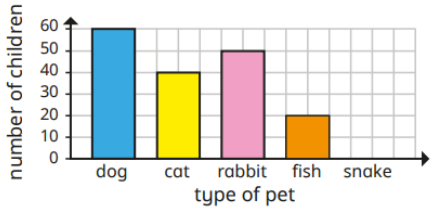
Class 3C are counting the colours of cars that pass the school.

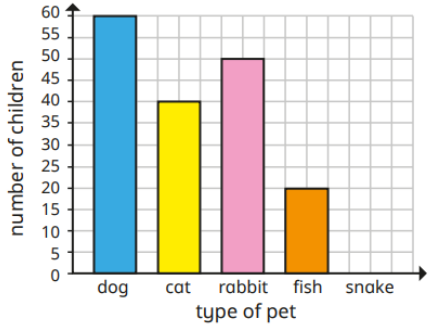
Colour	red	blue	black	silver	white	other
Number	12	6	14	10	14	2

Draw a pictogram to show their findings.

We are learning next

The bar charts show how many people have pets.





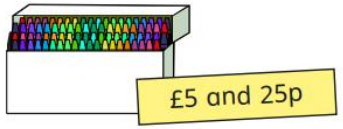
Do the bar charts show the same information?

Week 14

Year 3 Weekly Maths Challenge

Last Term

Annie buys these crayons.



She pays with this money.

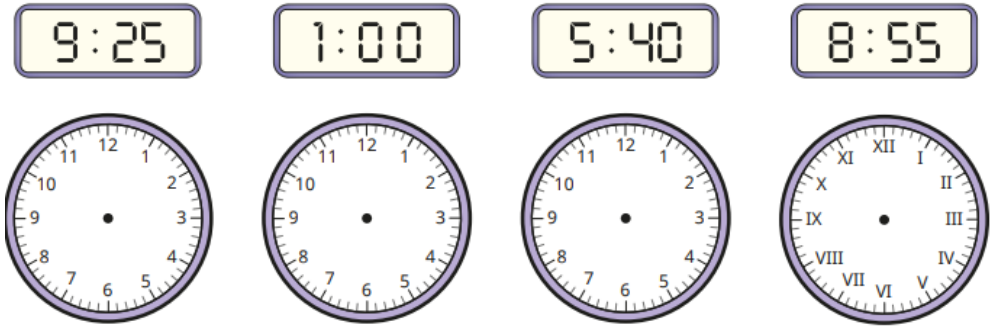
She gets this change.

Has Annie been given the correct amount of change?

Explain your answer.

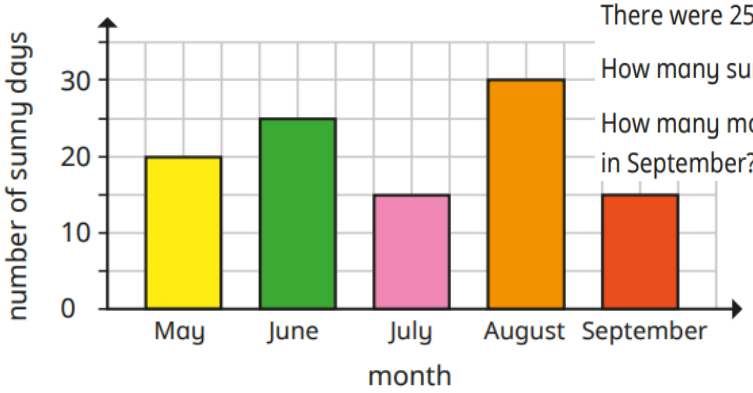
Previous learning

Draw hands on the clocks to show each time.



Current learning

The bar chart shows the number of sunny days between May and September.



Which month had the greatest number of sunny days?

There were 25 sunny days in June. How do you know?

How many sunny days were there in July?

How many more sunny days were there in August than in September?

We are learning next

Use the tally chart to collect information about people's favourite fruit.

Fruit	Tally	Total
apple		
orange		
banana		
grapes		
other		