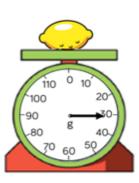
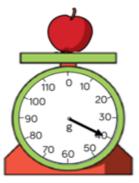
SIMMERING BRONZE

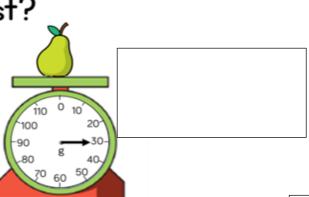
Flashback

What shape is this?

I) Which item is the heaviest?



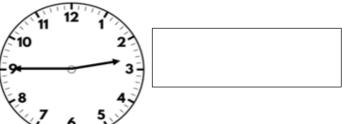






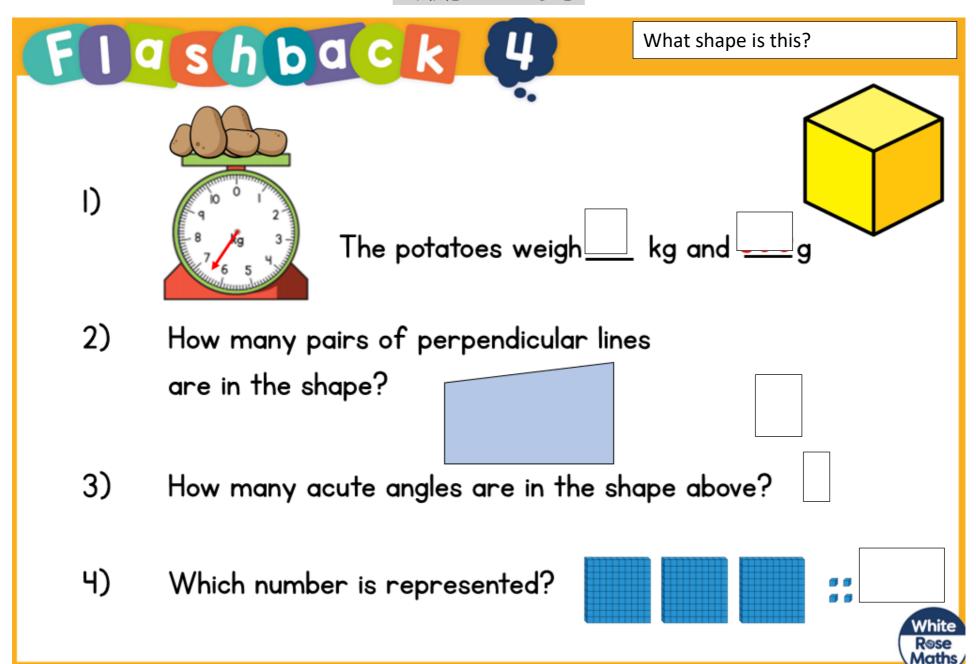
- 2) How much heavier is the apple than the pear'
- 3) What time is shown on the clock?





4) What is double 6 add 5?

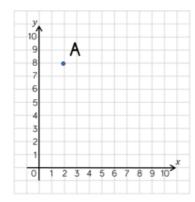




What shape is this?

Translate point A 4 to the right and 3 down.
 Write the coordinates of the new point.





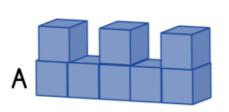


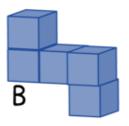
- 2) How many lines of symmetry does a rhombus have?
- 3) An angle measures 90°. What type of angle is it?
- 4) Subtract 3,462 from 5,200

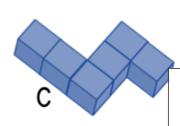


What shape is this?

Put the shapes in ascending order of volume.









 $\frac{1}{4}$ of an hour is equal to



minutes.



How many km are the same as 3,217 m?



4)

What number comes next in the sequence? 879, 889, 899,



Year 2 | Week 8 | Day 1

How long did the programme last?





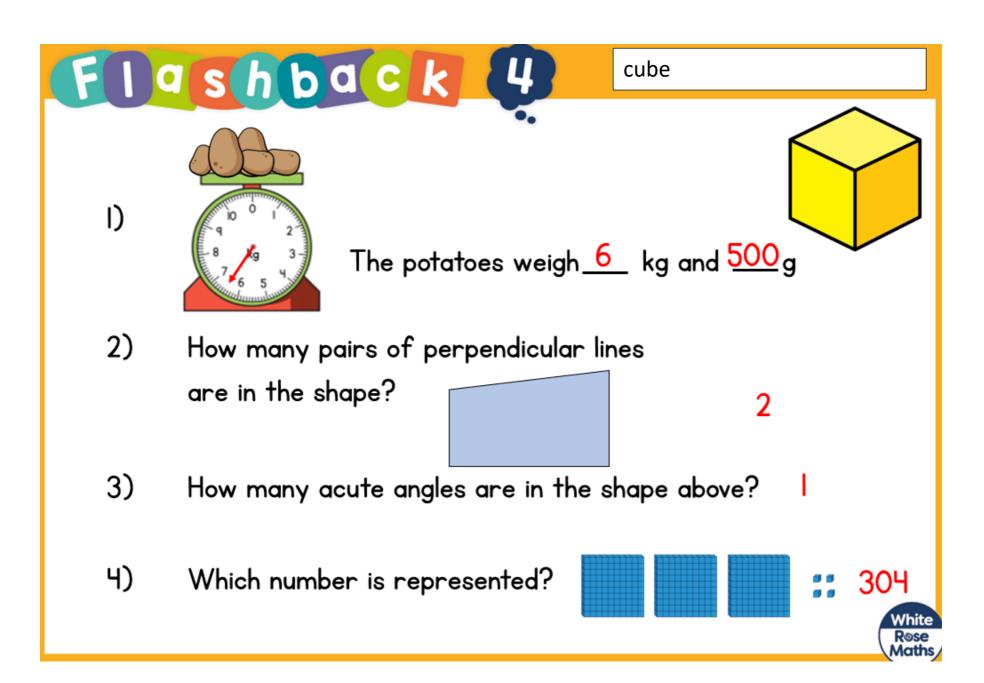




- 2) What time is shown on the clock?
 - 25 past 9
- 3) Use <, > or = to compare the lengths.

4) What is
$$\frac{3}{4}$$
 of 12? $\frac{9}{4}$

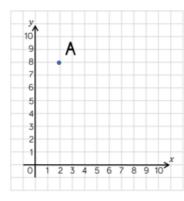




cone

Translate point A 4 to the right and 3 down.
 Write the coordinates of the new point.





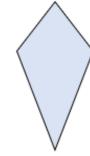
(6, 5)

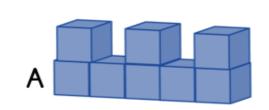
- 2) How many lines of symmetry does a rhombus have? 2
- 3) An angle measures 90°. What type of angle is it?
- 4) Subtract 3,462 from 5,200 1,738

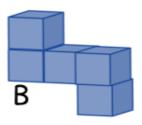


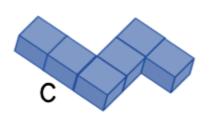
kite

1) Put the shapes in ascending order of volume.









B, C, A

- 2) $\frac{1}{4}$ of an hour is equal to $\frac{15}{15}$ minutes.
- 3) How many km are the same as 3,217 m? 3.217 km
- 4) What number comes next in the sequence? 879, 889, 899, 909

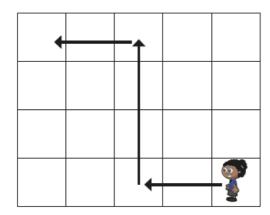




Describing movement and turns



Whitney is moving around a grid.



Complete the sentences to describe Whitney's movement.

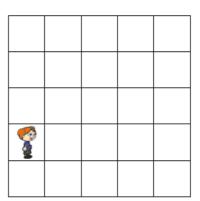
First, she walks	squares forwards.
Then she turnssquares forwards.	and walks
Then she turns	and walks

Alex is moving around a grid.



Draw arrows to show her movement.

- First, she walks 2 squares forwards.
- Then, she turns left and walks 3 squares forwards.

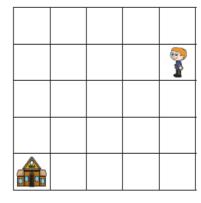


 Then she turns right and walks 2 squares forwards.

Could Alex have got there another way?



- 3 Ron is on his way to school.
 - a) Draw arrows to show the path Ron could take to school.
 - b) Describe the path to a partner.Did you choose the same path for Ron?







Describing movement and turns

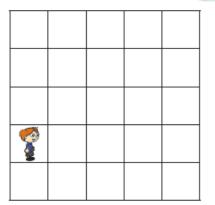


Alex is moving around a grid.



Draw arrows to show her movement.

- First, she walks 2 squares forwards.
- Then, she turns left and walks 3 squares forwards.

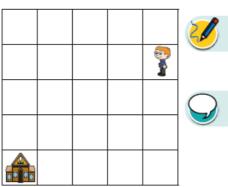


 Then she turns right and walks 2 squares forwards.

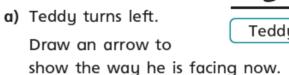
Could Alex have got there another way?

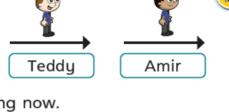


- Ron is on his way to school.
 - a) Draw arrows to show the path Ron could take to school.
 - b) Describe the path to a partner. Did you choose the same path for Ron?



Teddy and Amir are both facing the same way.

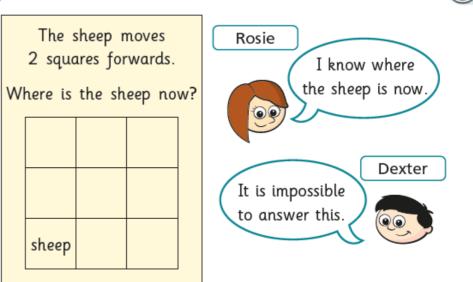




b) Amir turns a quarter turn anticlockwise.
Draw an arrow to show the way he is facing now.
What do you notice?



5) Rosie and Dexter are answering a question.



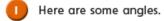
Who do you agree with?

Talk about it with a partner.



Compare angles





a) Which angle is greater than a right angle?



b) Which angle is less than 90 degrees?



2 Draw three different angles that are less than a right angle.



Complete the sentence.

These are all examples of _____ angles.

Oraw two different obtuse angles.

Compare answers with a partner.

Complete the sentence.

Obtuse angles are greater than degrees

but less than degrees.



a)



b)









c) Find two obtuse angles on the wallpaper





Write <, > or = to compare the sizes of the angles.













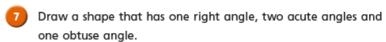














What is the same and what is different about your shapes?





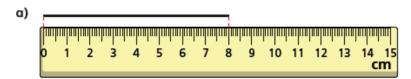


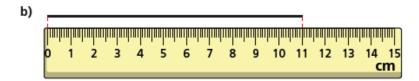


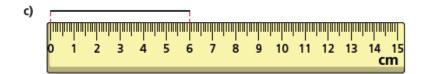
Draw accurately



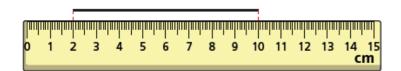
How long is each line?





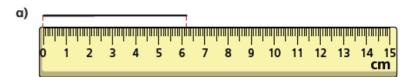


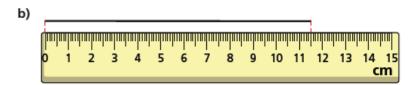
- Draw two lines that are each 5 cm long.
- Dani says the line is 10 cm long.



- a) What mistake has Dani made?
- b) How long is the line?

What is the length of each line in millimetres?





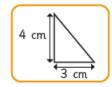
- c) _____
- Use a ruler to draw the lines.
 - a) Draw a line 8 cm long.
- b) Draw a line 80 mm long.

What do you notice about the lines you have drawn? Why is this?

- Use a ruler to help you answer the questions.
 - a) Draw a 4 cm by 4 cm square. b) N
 - b) Measure the length of the diagonal.

Give your answer in millimetres.

- Draw a rectangle 8 cm long and 32 mm wide.
- a) Make a sketch of the triangle.
 - b) Use your drawing to work out the perimeter of the triangle.



















GOLD

Triangles

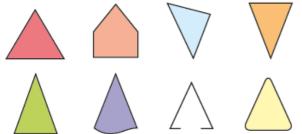






- a) Which shapes are polygons?
- b) Talk to a partner about why the other shapes are not polygons.
- c) Write a definition of a polygon.
 Compare your definition with a partner's.





For any shapes that are not triangles, talk to a partner about why somebody might think they are triangles.





This is an upside down triangle.



a) Ron is incorrect.

Explain why.

- b) What type of triangle is it?
- Annie is identifying shapes.



This shape has 3 sides, so it is a triangle.



Do you agree with Annie?

Explain your answer.

Match the type of triangle to the definition.

scalene

equilateral

isosceles

2 sides and 2 angles equal no sides or angles equal

all sides and all angles equal





Triangles



Ron is classifying triangles.



This is an upside down triangle.



a) Ron is incorrect.Explain why.

- b) What type of triangle is it?
- Annie is identifying shapes.



This shape has 3 sides, so it is a triangle.



Do you agree with Annie?

Explain your answer.

Match the type of triangle to the definition.

scalene

equilateral

isosceles

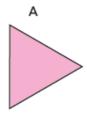
2 sides and 2 angles equal no sides or angles equal

all sides and all angles equal

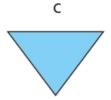


Label each triangle as either equilateral, isosceles or scalene.

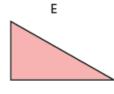
You will need to measure the side lengths.

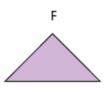






D





Draw each triangle on a squared grid.



b) right-angled

c) scalene

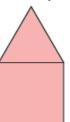
Which triangle was hardest to draw?



8 The diagram shows an equilateral triangle and a square.

The perimeter of the square is 100 cm.

Work out the perimeter of the compound shape.









PLATINUM

Drawing lines and angles accurately

Draw each of the angles accurately. Use a horizontal line as part of your angle.

a) 60 degrees

c) 110°

b) 85°

d) 143°

Dexter is asked to draw an angle of 30 degrees. He marks a point as shown.



What mistake has Dexter made?

Draw an angle of 100° on each line.



Draw three angles that all measure 55°. Each angle should be in a different orientation.



Draw these lines and angles accurately using a ruler and protractor.

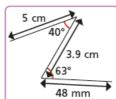




b)

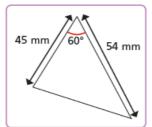


Make an accurate drawing of the shape.





Draw the triangle accurately and work out its perimeter.





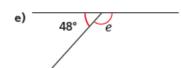


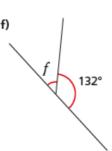




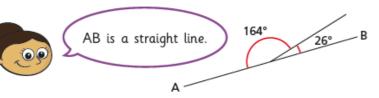
Calculating angles on a straight line







Dora draws two angles.

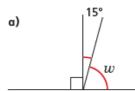


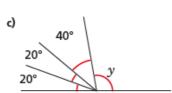
Do you agree with Dora?

Explain your answer.

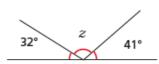


Show the steps in your working.



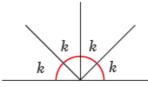






Work out the sizes of the unknown angles.

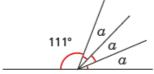
a)





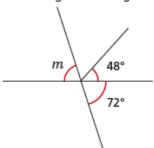
b)

6) Work out the size of angle a.



Work out the size of angle m.

Show all your working out.



8 Two angles are marked.

Angle b is eight times the size of angle a.

What is the size of each angle?



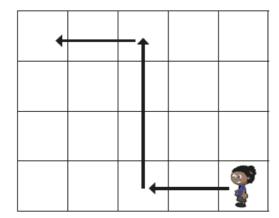




White Rose Maths

Describing movement and turns





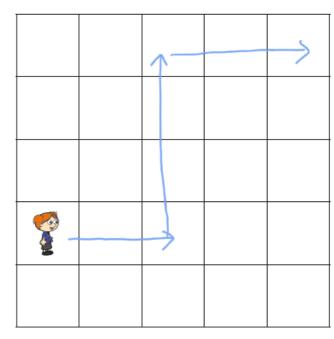
Complete the sentences to describe Whitney's movement.

First, she walks 2 squares forwards.

Then she turns <u>right</u> and walks 3 squares forwards.

Then she turns _____ and walks squares forwards.





Draw arrows to show her movement.

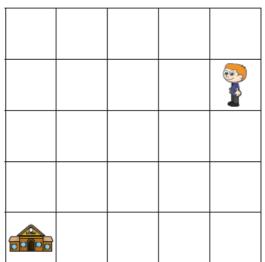
- First, she walks 2 squares forwards.
- Then, she turns left and walks
 3 squares forwards.
- Then she turns right and walks
 2 squares forwards.

Could Alex have got there another way?

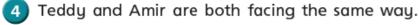




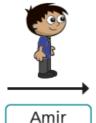
3 Ron is on his way to school. Various answers



- a) Draw arrows to show the path Ron could take to school.
- b) Describe the route to a partner.Did you choose the same route for Ron?







a) Teddy turns left.

Draw an arrow to show the way he is facing now.



b) Amir turns a quarter turn anticlockwise.

Draw an arrow to show the way he is facing now.

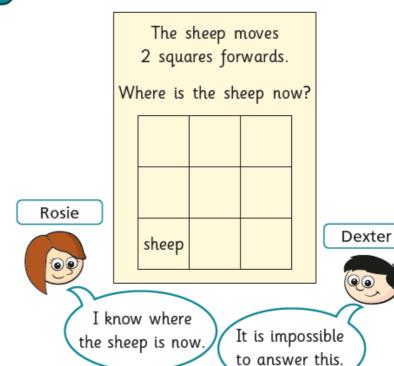


What do you notice?



Rosie and Dexter are answering a question.





Who do you agree with?

Dexter

Talk about it with a partner.





SILVER ANSWERS



Compare angles



a) Circle the angle that is greater than a right angle.





b) Circle the angle that is less than 90 degrees.





Draw three different angles that are less than a right angle.





Compare answers with a partner.

Complete the sentence.

These are all examples of __



Draw two different obtuse angles.

Various answers.

Compare answers with a partner.

Complete the sentence.

Obtuse angles are greater than degrees

but less than degrees.



Is the angle between the hands of the clock acute or obtuse?





acute





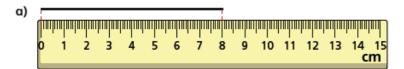
Oppose

O White Rose Maths 2020

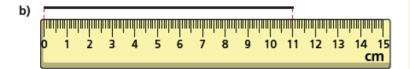
Draw accurately



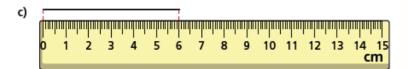
How long is each line?



g cm



] cm



6 cm

Draw two lines that are each 5 cm long.

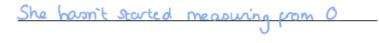




Dani says the line is 10 cm long.

0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 C

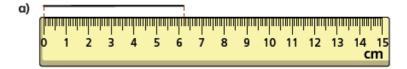
a) What mistake has Dani made?



b) How long is the line?



What is the length of each line in millimetres?



62 mm



115 mm

c) _____

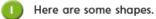


White Rose Maths 2020

GOLD ANSWERS

Triangles

























- a) Tick the polygons.
- b) Talk to a partner about the shapes you have not ticked. Why are they not polygons?
- c) Write a definition of a polygon.

A closed shape made up a straight







Compare your definition with a partner's.



Tick the triangles.

















For any shapes you have not ticked, talk to a partner about why somebody might think they are triangles.



Ron is classifying triangles.



This is an upside down triangle.



a) Ron is incorrect.

Explain why.

cannot be upside down.

b) What type of triangle is it?

equilateral

Annie is identifying shapes.



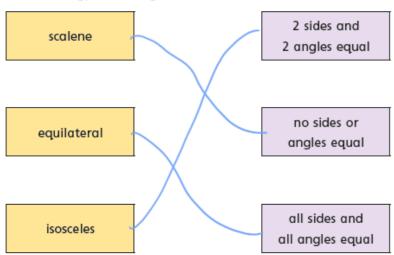
This shape has 3 sides, so it is a triangle.



Do you agree with Annie? No Explain your answer.

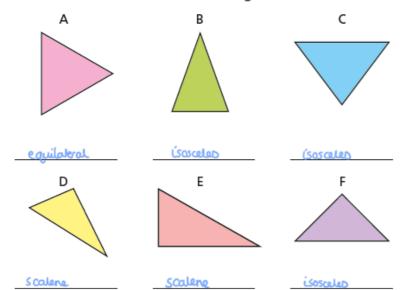
A triangle has three straight sides this shape

Match the type of triangle to the definition.

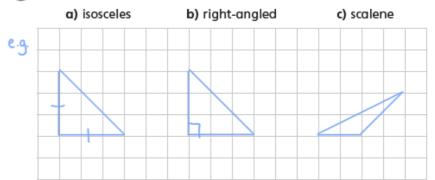


Label each triangle as either equilateral, isosceles or scalene.

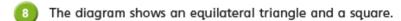
You will need to measure the side lengths.





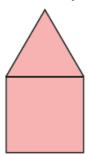








Work out the perimeter of the compound shape.



cm







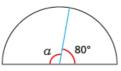
PLATINUM ANSWERS



Calculating angles on a straight line

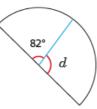
Work out the sizes of the unknown angles.

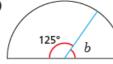
a)



a)

f)

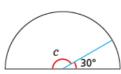


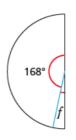






c)

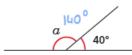




Work out the size of the unknown angles.

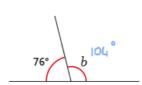
a)

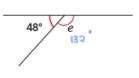
d)



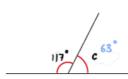


b)

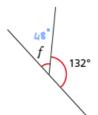




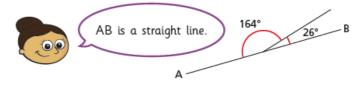
c)



f)



Dora draws two angles.



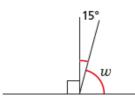
Do you agree with Dora? <u>No</u>

Explain your answer.

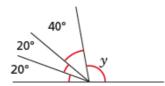
Work out the size of the unknown angles.

Show the steps in your working.

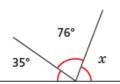
a)



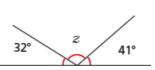
c)



b)

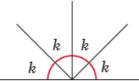


d)



Work out the sizes of the unknown angles.

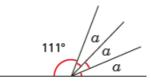
a)



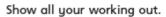
b)

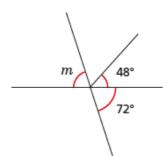


6 Work out the size of angle a.



 $oldsymbol{0}$ Work out the size of angle m.





$$m = \boxed{72}$$

Two angles are marked.





What is the size of each angle?



