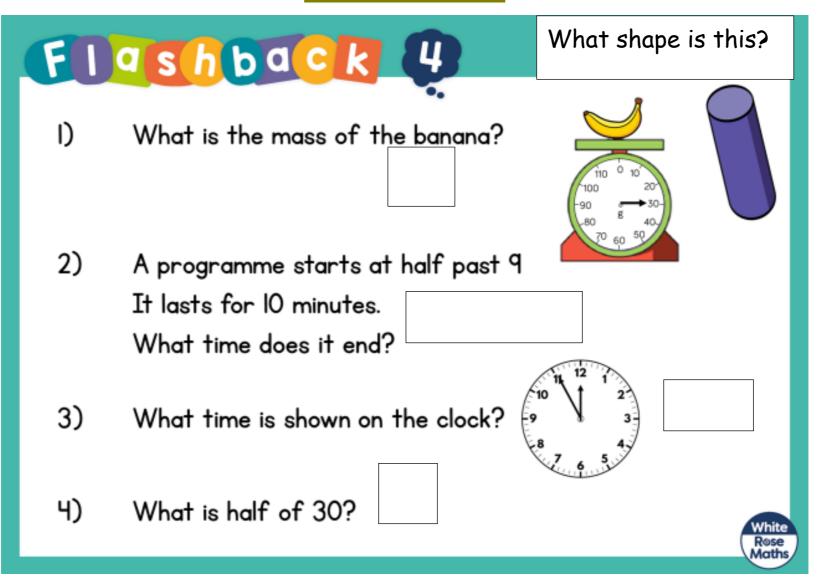
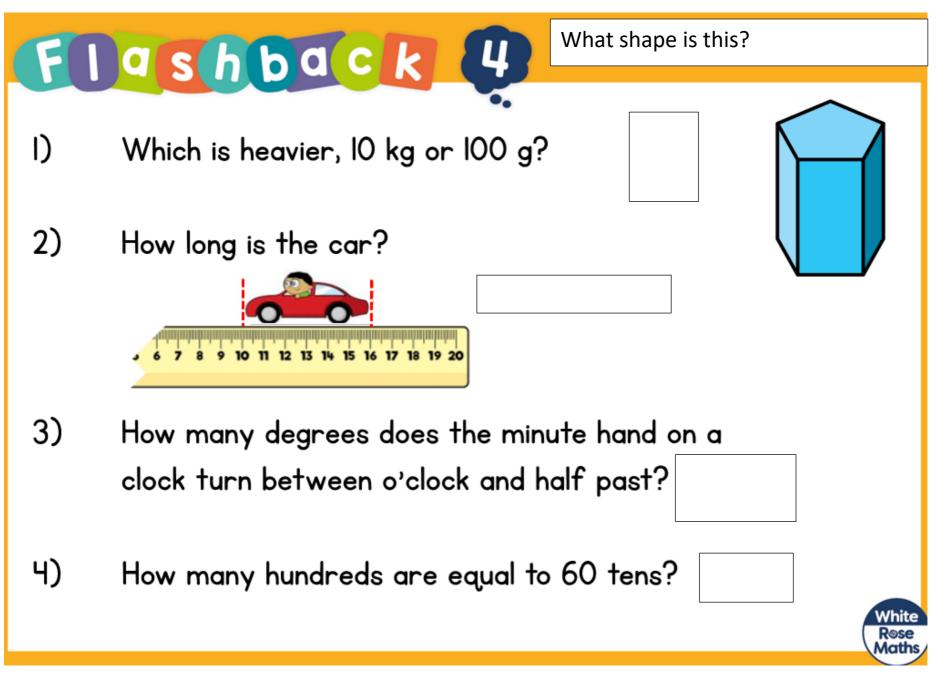
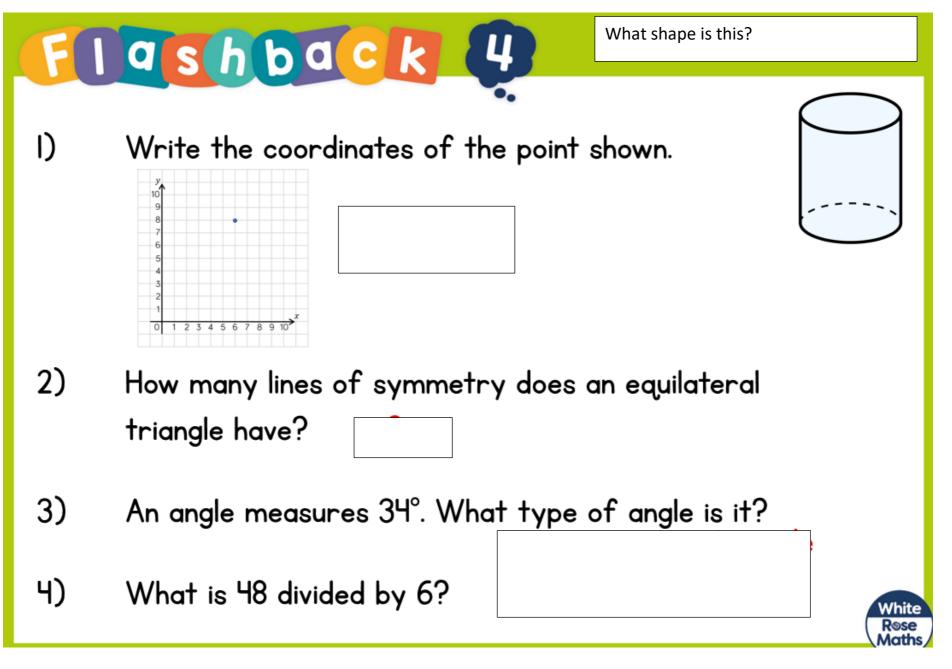
SIMMERING BRONZE



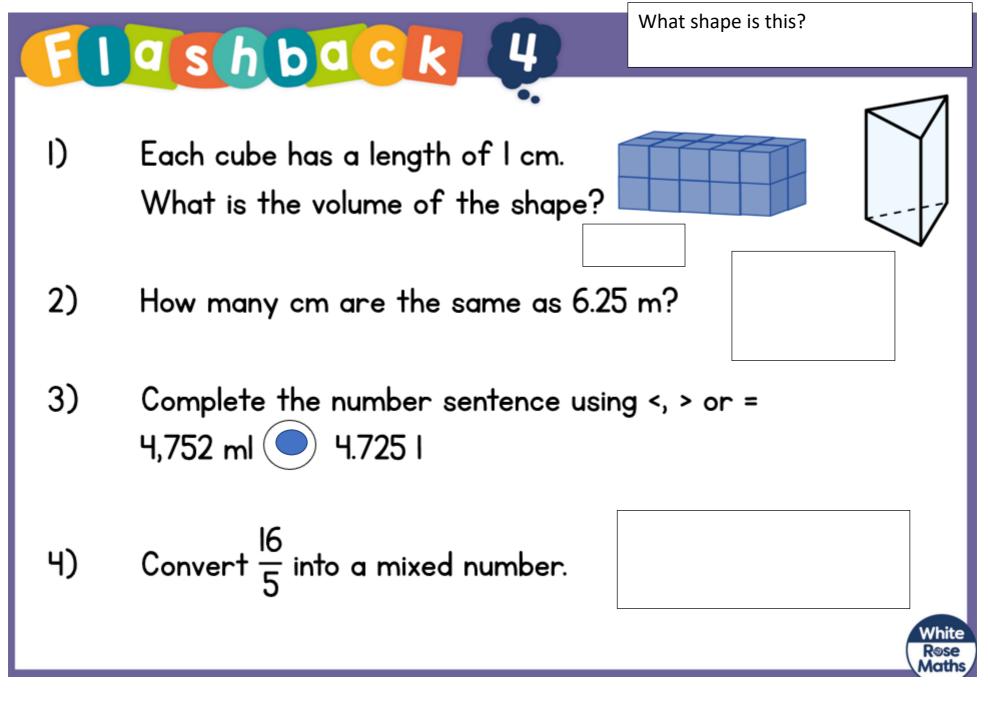
SIMMERING SILVER



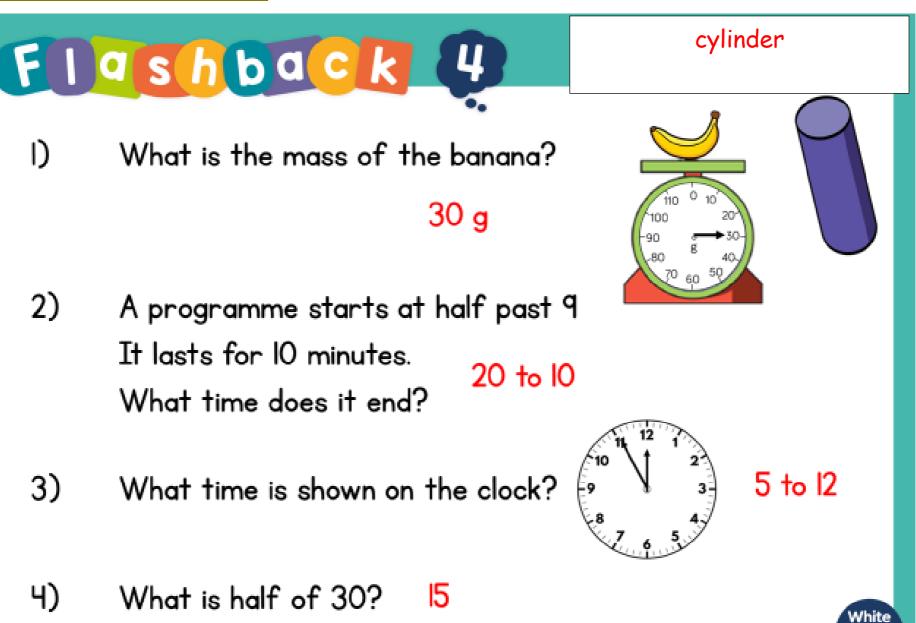
SIMMERING GOLD



SIMMERING PLATINUM

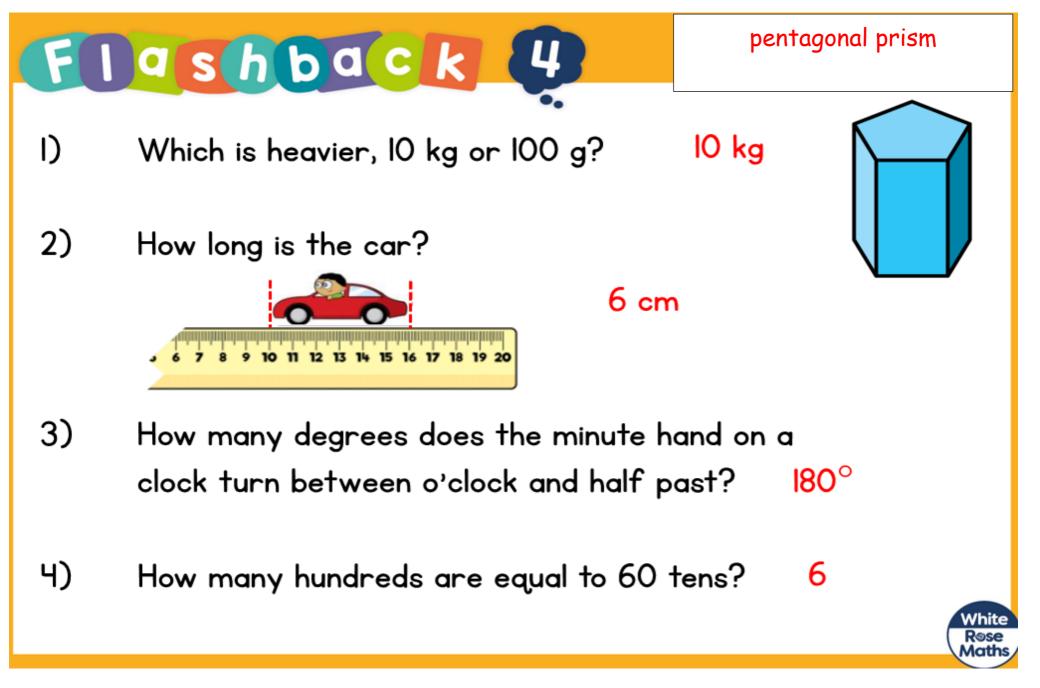


ANSWERS SIMMERING BRONZE

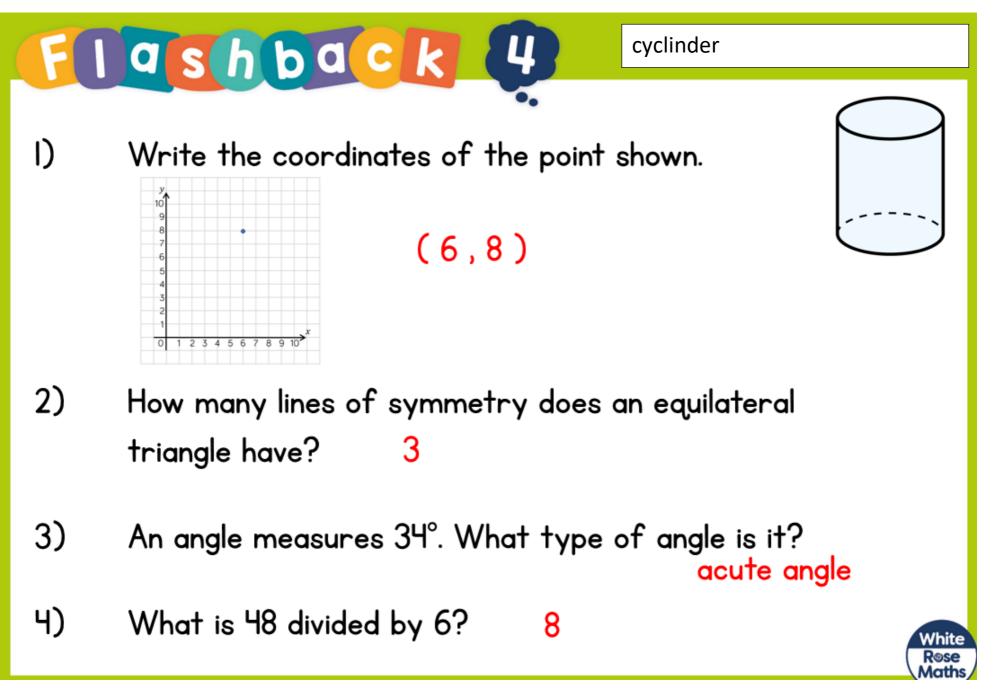


Rose Math

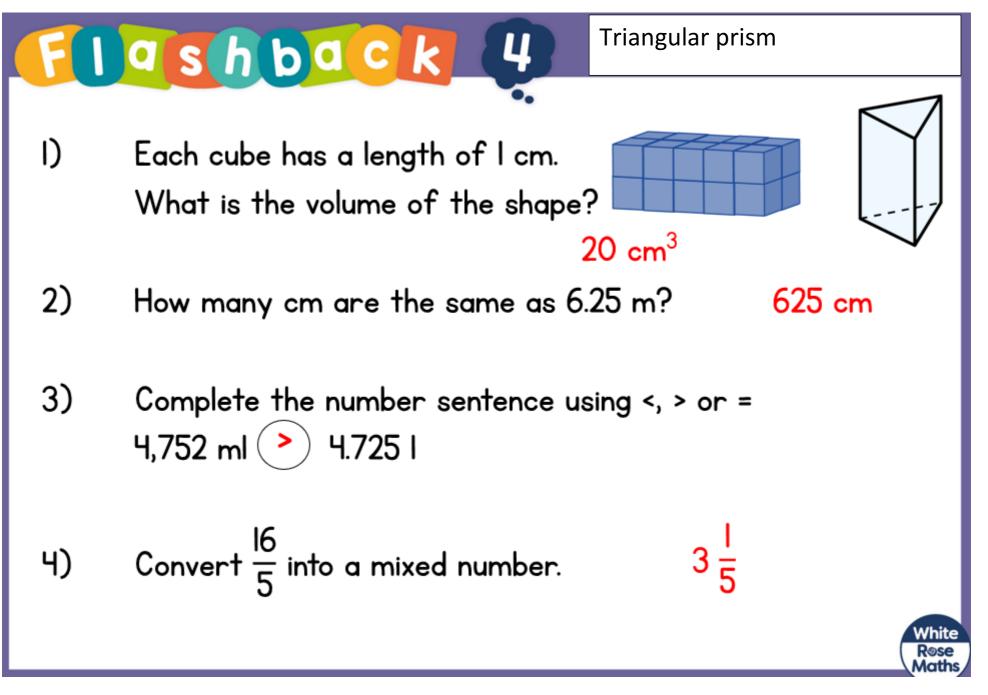
ANSWERS SIMMERING SILVER



ANSWERS SIMMERING GOLD

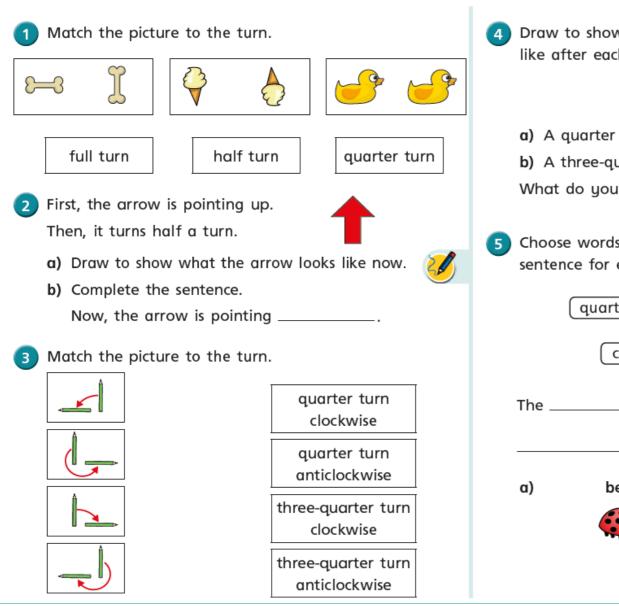


ANSWERS SIMMERING PLATINUM





Describing turns

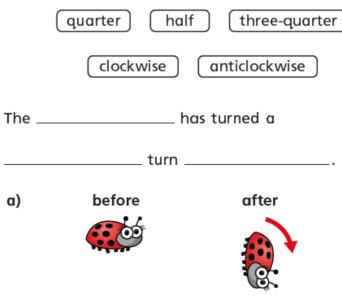


Draw to show what the triangle will look like after each turn.

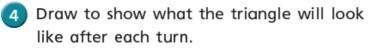


Rose Maths

- a) A quarter turn clockwise.
- b) A three-quarter turn anticlockwise.
- What do you notice?
- Choose words from the word bank to complete the sentence for each picture.

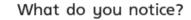


Describing turns



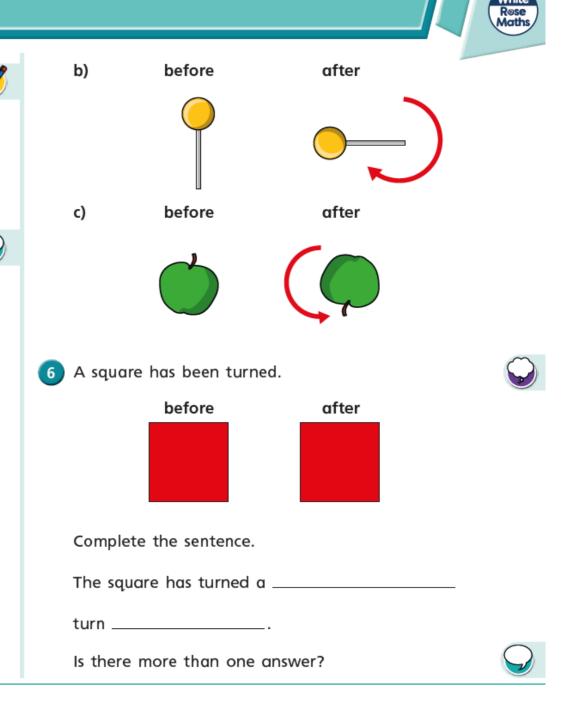


- a) A quarter turn clockwise.
- b) A three-quarter turn anticlockwise.



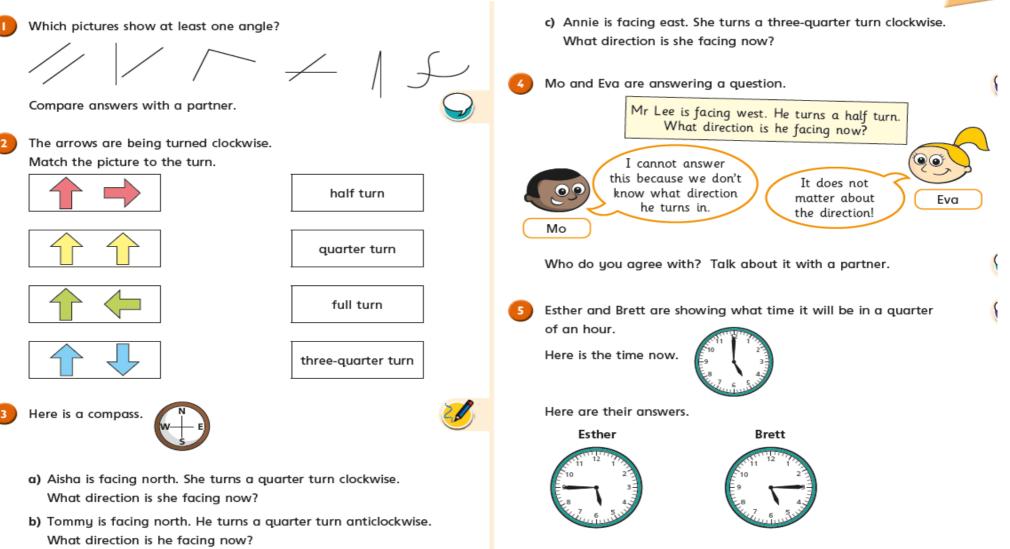
5 Choose words from the word bank to complete the sentence for each picture.

α)	before	after
The _	h	nas turned a
	clockwise	anticlockwise
	quarter ha	lf (three-quarter)



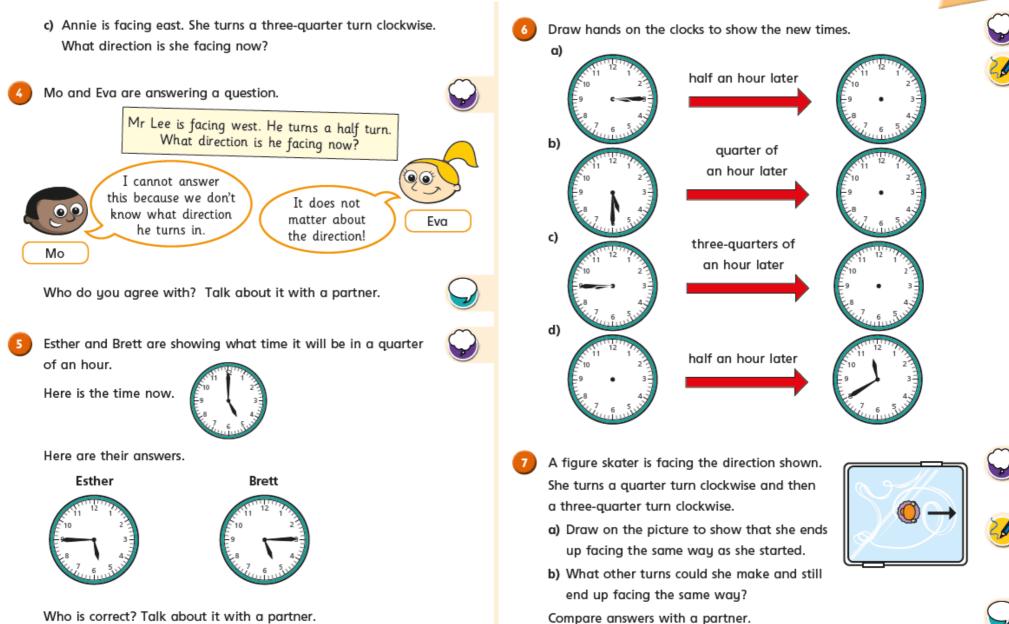
SILVER

Turns and angles



Who is correct? Talk about it with a partner.

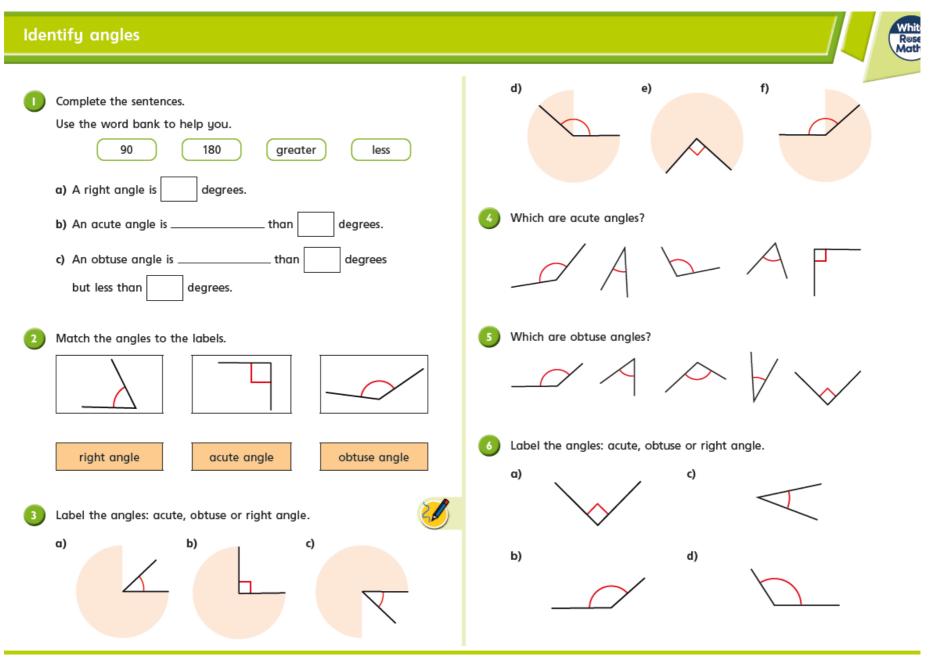
Turns and angles



Who is correct? Talk about it with a partner.

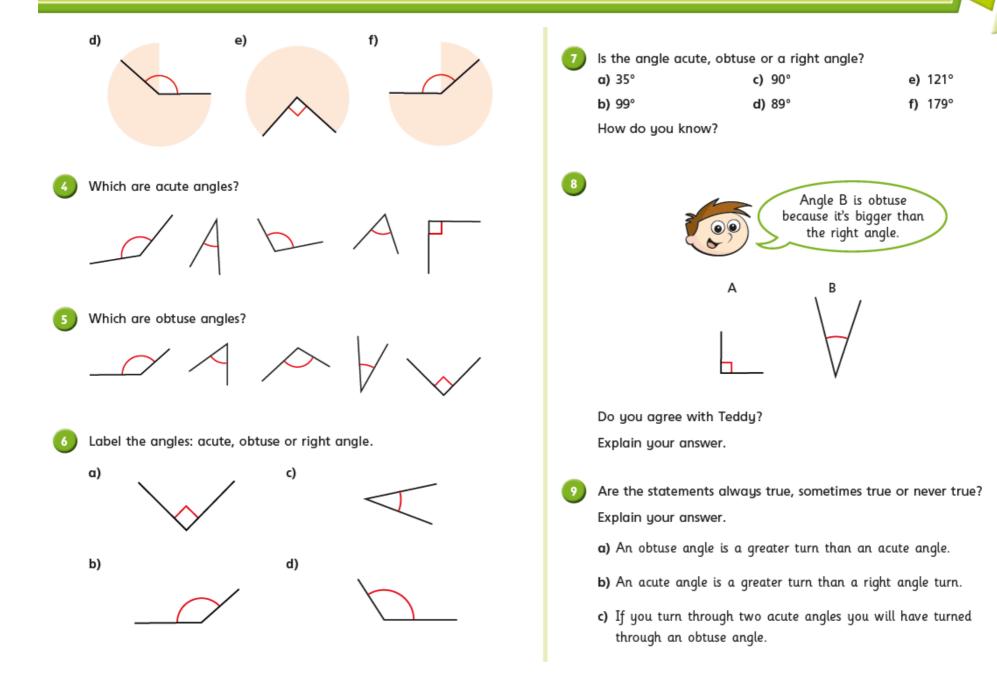
Rese Maths



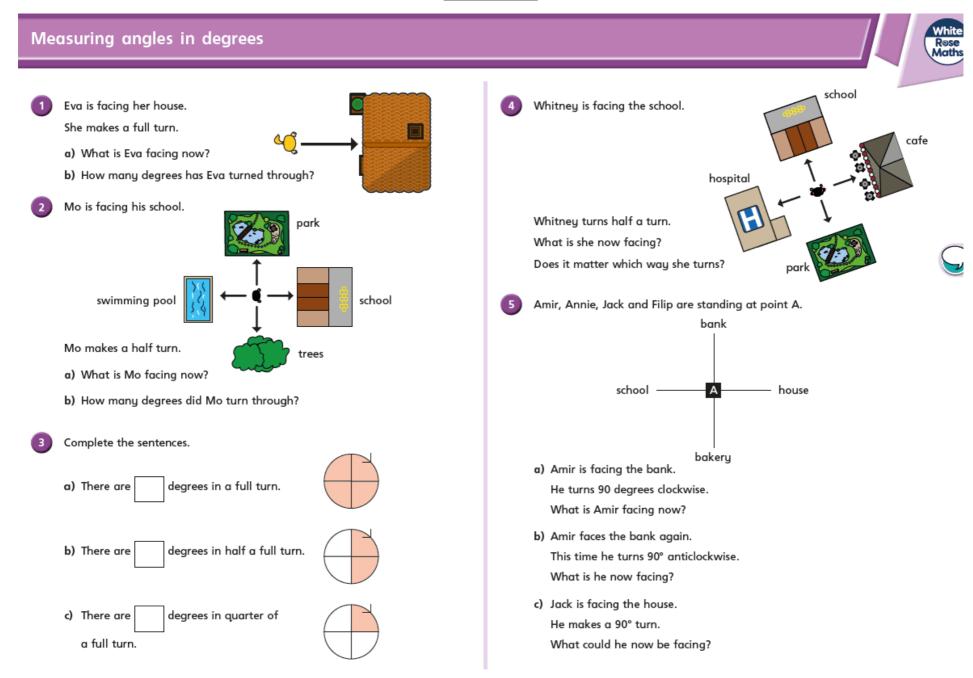


Identify angles

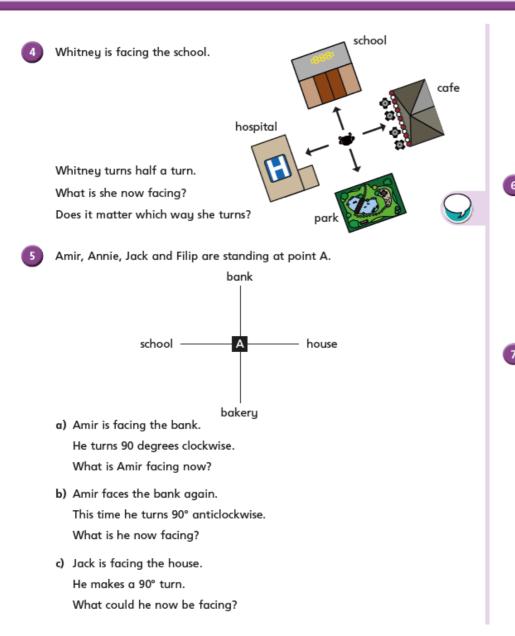




PLATINUM



Measuring angles in degrees



- How many degrees did he turn through? e) Annie is facing the bakery. She turns to face the school. Describe two different turns she could have made. Ron is standing in the park. He is facing forward and looking at a slide. He makes a 180 degree turn and is now facing a bench. He now makes a 90 degree turn and is facing a tree. Draw a possible diagram of the park. Compare your diagram with a partner's diagram. What is the same and what is different about your diagrams? The diagram shows the direction of some places in relation to the centre of a town. church supermarket cinema
 - coffee shop < town centre -> school I am in the town centre, house restaurant facing the cinema. I make a bank 90° turn clockwise.

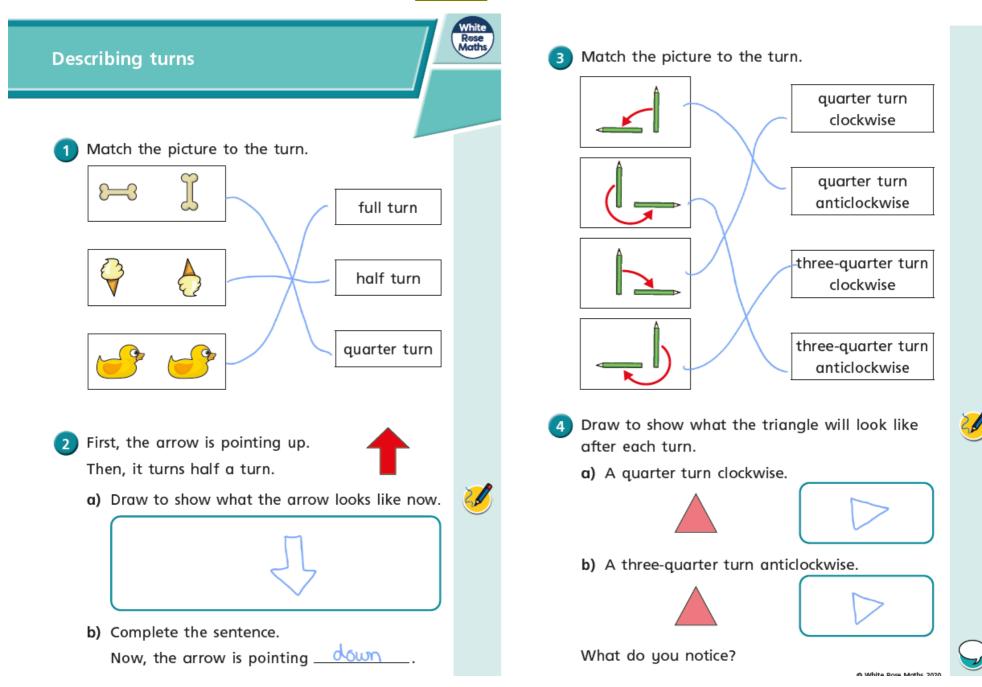
What is Tommy facing now?

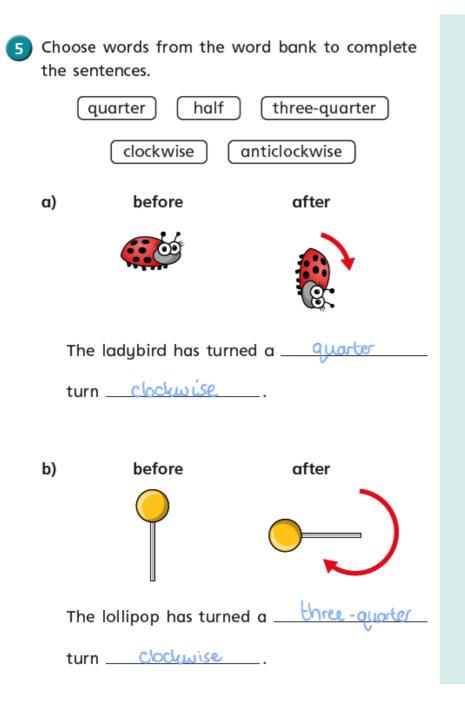
d) Filip is facing the school.

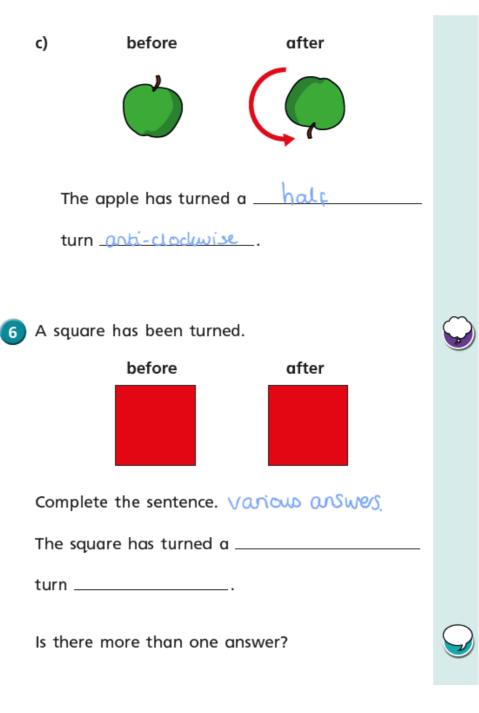
He turns to face the house.

Create your own problem like this for a partner.

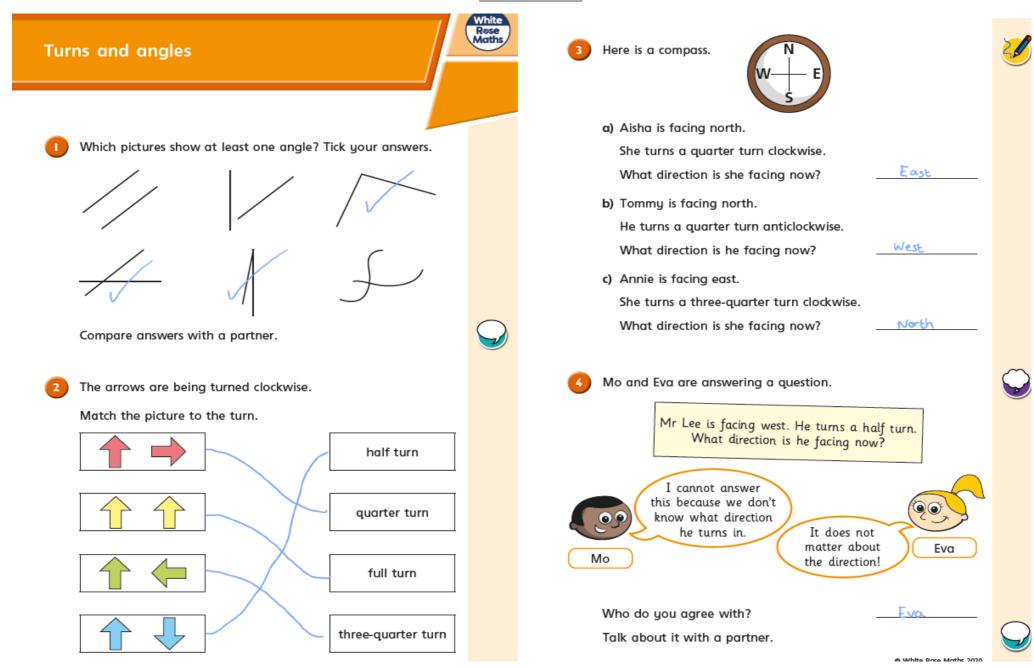
BRONZE ANSWERS







SILVER ANSWERS





Esther and Brett are showing what time it will be in a quarter

Here is the time now.

of an hour.



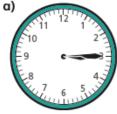
Here are their answers.



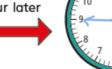


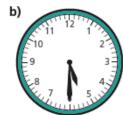
Who is correct? Talk about it with a partner.

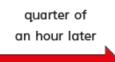
Draw hands on the clocks to show the new times.



half an hour later





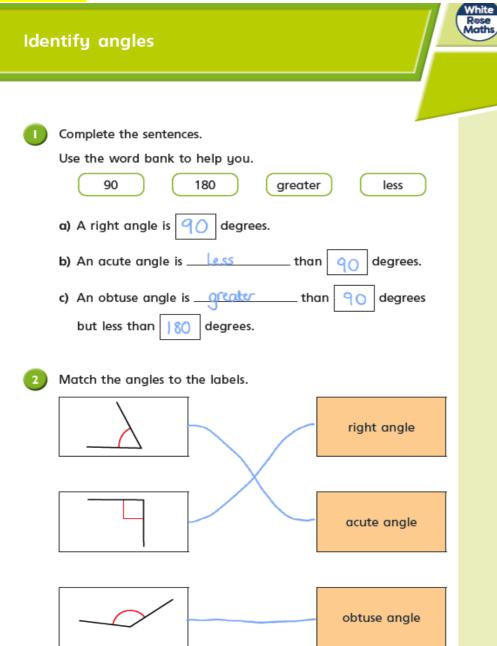




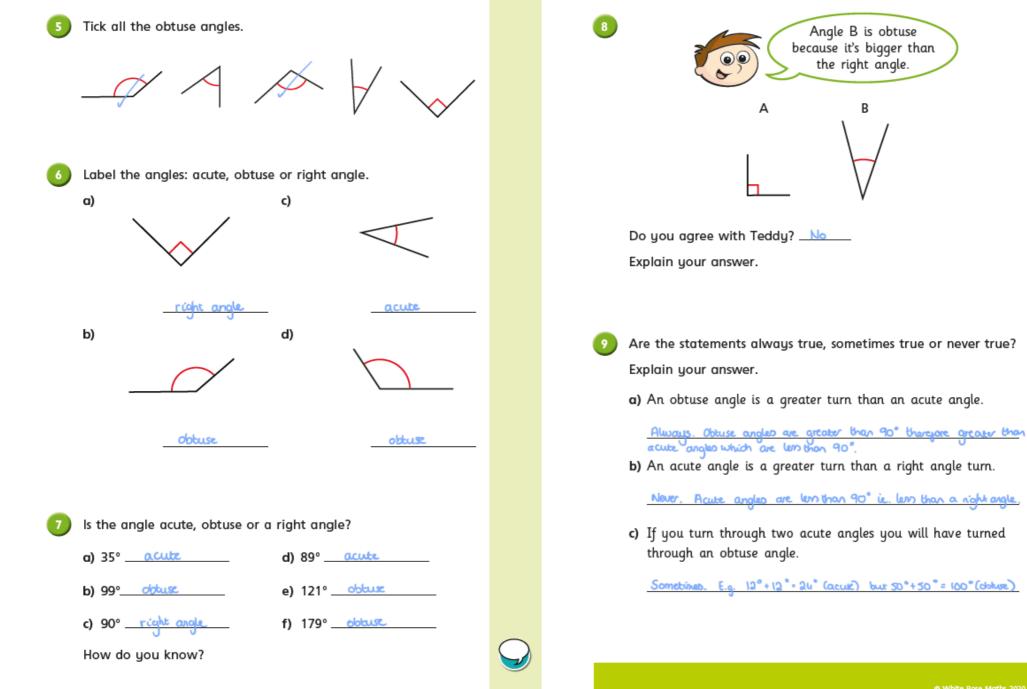
Brett

c) three-quarters of an hour later d) half an hour later A figure skater is facing the direction shown. She turns a quarter turn clockwise and then a three-quarter turn clockwise. a) Draw on the picture to show that she ends up facing the same way as she started. b) What other turns could she make and still end up facing the same way? Vanaus answers Compare answers with a partner.

GOLD ANSWERS



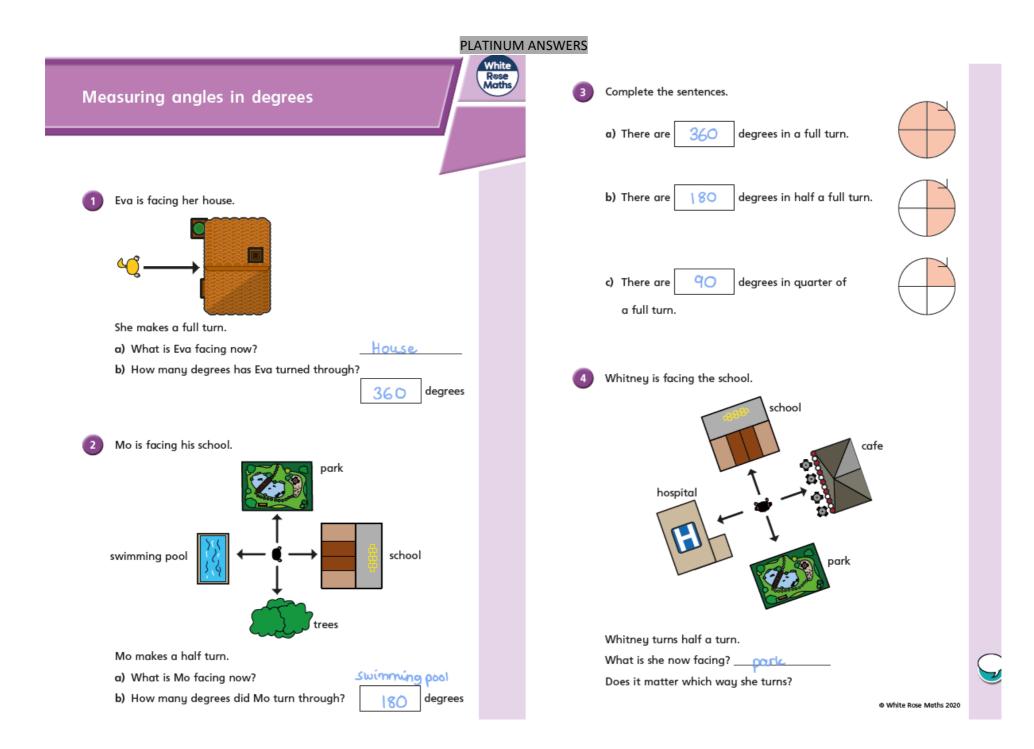
3	Label the angles: acute, obtuse or right angle.		
	a)	d)	
	b)	e)	
	c)	f)	
4	Tick all the acute angles.		



Never. Acute angles are less than 90° it. less than a right angle.

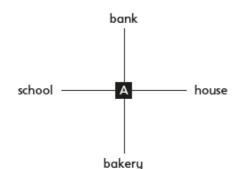
c) If you turn through two acute angles you will have turned

Sometimes. E.g. 12°+12°=24° (acut) but 50°+50°= 100° (doluse)





Amir, Annie, Jack and Filip are standing at point A.



a) Amir is facing the bank. He turns 90 degrees clockwise.

Where is Amir facing now?

house

b) Amir faces the bank again.

This time he turns 90° anticlockwise. Where is now facing?

school

c) Jack is facing the house.

He makes a 90° turn.

Where could he now be facing?

 hank or bakery
d) Filip is facing the school. He turns to face the house. How many degrees did he turn through?
e) Annie is facing the bakery. She turns to face the school. Describe two different turns she could have made. Ron is standing in the park.

He is facing forward and looking at a slide. He makes a 180 degree turn and is now facing a bench. He now makes a 90 degree turn and is facing a tree. Draw a possible diagram of the park.

