



## Home Learning Grid

Year 6

Week Commencing – 06.04.20

Work to be completed in home learning books

	Monday	Tuesday	Wednesday	Thursday	Friday
<b>Spelling/ Fast Maths</b>	<b>Fast Maths</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 015491	<b>Spelling</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 0167333	<b>Fast Maths</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 0174994	<b>Spelling</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 0298881	<b>Fast Maths</b> Go to <a href="https://kahoot.it">kahoot.it</a> and use code 0574688
<b>Reading</b>	<b>First News</b> See the First News article below and have a go at the questions.	<b>Crater Lake</b> Read pages 20-26 and answer the quick questions at <a href="https://kahoot.it">kahoot.it</a> and using code 0547219	<b>Crater Lake</b> Read pages 27-32 and complete the inference task below.	<b>Crater Lake</b> Enjoy reading chapter 4 of Crater Lake. If you must do some work, send me what you think of it so far.	<b>First News</b> See the First News article below and have a go at the crossword.
<b>Writing</b>	<b>Crater Lake Description (Setting Description)</b> Use some of the model texts found <a href="#">here</a> to write your own description of Crater Lake. Show what the characters probably noticed when they arrived there for the first time – under darkness.				<b>100 Word Challenge</b> See below (or on Seesaw activities) for the 100 Word Challenge for this week.
<b>Maths</b>	<b>Ratio</b> Complete the 'Calculating scale factors' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Ratio</b> Complete the 'Ratio and proportion problems' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Angles</b> Complete the 'Measure with a protractor' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Angles</b> Complete the 'Introduce angles' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).	<b>Angles</b> Complete the 'Calculate angles' task below. Click <a href="#">here</a> for video tutorials and answers (no cheating).
<b>Challenge</b>	<b>Writing</b> Take a look <a href="#">here</a> for some ace sentence stacking lessons for you to do some creative writing.	<b>Art</b> Join in Rob Biddulph's live art workshop and competition at 10AM <a href="#">here</a> .	<b>Dance</b> Blow off some steam and learn some dance moves with Strictly's own Oti Mabuse <a href="#">here</a> .	<b>Art</b> Join in Rob Biddulph's live art workshop and competition at 10AM <a href="#">here</a> .	<b>Maths</b> Can you set a new high score on Timetable Rockstars <a href="#">here</a> or Mangahigh <a href="#">here</a> ?

## Reading (Monday)

### WORLD NEWS

#### GABON

**Keeping our furry cousins safe**  
Tourists have been banned from seeing Gabon's gorillas, in case they pass on the coronavirus to them. So far, Africa has reported only a small number of cases of the virus, but the poor standard of healthcare in many countries there means that the continent could be hit very hard if the virus takes hold. Gorillas can suffer from some of the same diseases as humans, including colds and pneumonia, and many African gorillas have been killed by Ebola in previous outbreaks. "The respiratory viruses that affect humans are easily transmitted to great apes because the two species are so closely related," park official Christian Tchembela told AFP.



#### CANADA

**Less scaremongering, more camaraderie!**  
Kind Canadians have invented a new word and spread a worldwide trend called caremongering. The word was created for social media groups in Canada that were set up to provide help to people in need. The groups aim to stop people from scaremongering, which means to create panic and fear. "It's spread the opposite of panic in people, brought out community and camaraderie [trust], and allowed us to tackle the needs of those who are at-risk all the time, now more than ever," Valentina Harper told the BBC.



#### NEW ZEALAND

**Taxis for the birds!**  
A taxi driver has become the leader of a volunteer army who rescue Hutton's shearwater chicks that crash-land onto roads. The Hutton's shearwater is the only seabird in the world that nests and raises its young in the mountains. On foggy nights, the grey puffballs mistake glimmering roads for the sea and fly straight into them. They're then unable to move, and might get hit by a car or eaten by a cat. Fortunately, Toni Painting and her volunteers are there to help. Toni drives around every night, scooping up the birds she finds helpless at the side of the road, before dropping them off at a rehabilitation centre, which then gets them back to the sea.



#### SAUDI ARABIA

**Maraya means mirrors**  
A Saudi Arabian company has built the largest mirrored building in the world. Located in the west of Saudi Arabia's Al-Ula region, the Maraya Concert Hall is 26 metres tall and can seat 500 people. The building is covered by a total of 9,740m<sup>2</sup> of mirrors.



#### USA

**Basketball record**  
A teenager has set a world record for the most 'bounce juggles' in one minute with three basketballs. Zaila Avant-Garde has been practising dribbling basketballs since she was five. She also practised bounce juggling, where you bounce balls off the ground, for two years before trying for the record. She performed the feat on her 13th birthday and managed 231 bounces in one minute. That's about four bounces every single second and 18 more than the previous record. Zaila is a keen basketball player and hopes to join a team in the WNBA (Women's National Basketball Association) one day. "The more the achievements of women are promoted, the more little girls around the world will see that they can do any and everything they put their minds to," she said.



#### ODISHA, INDIA

**StayAlert! #COVID19**  
"I STAYED AT WORK FOR YOU"  
"YOU STAY AT HOME FOR US"  
A SCULPTURE by sand artist Sudarsan Pattnaik, raising awareness of COVID-19, the disease caused by the coronavirus.





1. Look at these subjects of news stories. Which location are the stories from?
 

<b>A sporty teenager</b>	<b>A taxi driver</b>	<b>An artist</b>
<b>A business</b>	<b>Tourists</b>	<b>People living in a community</b>
2. Look at the story from Gabon.
  - a) Why is it easy for gorillas to catch human diseases?
  - b) Why would it be terrible news if the coronavirus spread to other great apes?
3. Look at the story from Canada. Find the meanings of these three words:
 

<b>scaremongering</b>	<b>camaraderie</b>	<b>caremongering</b>
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4. Why was the new word needed?
5. Look at the story from New Zealand. Write these events in the correct order.
  - **Some chicks mistake shiny roads for water and crash into the ground**
  - **She drives the birds to a rescue centre, where they are nursed back to health and released**
  - **Hutton's shearwater birds raise their chicks in the mountains**
  - **Each night Toni Painting rescues the chicks and puts them in her taxi**
  - **When the chicks are grown, they leave their nests and head for the sea**
6. Look at the news from India. What message is being given in the sand sculpture? Explain in your own words.
7. Look at the news from the USA. What words would you use to describe 13 year-old Zaila Avant-Garde's new record?
8. The coronavirus means that there is a lot of serious, and sometimes sad, news about. Which of these stories from around the world do you find either cheering or fascinating? Explain your choice.

### **Reading (Wednesday)**

What do we think of Digger? He seems quite a suspicious guy, or of course maybe he is perfectly innocent and normal – yeah right. Using the feeling you get about Digger from Chapter 3 and also details from the text, write a diary entry from Digger's point of view, as if he had filled in a diary the night after meeting the children and staff from Montmorency. The idea is to leak all of his deep, dark thoughts but remember, these thoughts are private so he can reveal whatever he wants without the children finding out. Have fun!



This story is from page 13 of *First News*. Can you match the key words in the story to their meanings? When you have identified each word, can you put them back into their correct place in the story, so it makes sense?



## SCIENCE NEWS

# F1 JOINS FIGHT

FORMULA 1 teams will produce \_\_\_\_\_ with COVID-19.

A group of UK-based F1 teams are working out how they can use their \_\_\_\_\_ skills to increase \_\_\_\_\_ of the life-saving kit.

Some people with COVID-19 (the \_\_\_\_\_) caused by the new coronavirus) find their \_\_\_\_\_ is badly affected, and ventilators are the devices that doctors use to supply air to them.

The F1 teams, engine manufacturers and technology experts are well-placed to help because they have experience of \_\_\_\_\_ and \_\_\_\_\_ products safely and, most importantly, quickly.

A spokesperson for F1 said: "All the teams have expert design, technology and production capabilities... which is hoped can be applied to the critical needs set out by Government."

The NHS currently has access to 8,175 ventilators.



F1 champion Lewis Hamilton in his Mercedes car earlier this year.

ventilators

The process of taking oxygen into the lungs in order to stay alive (noun)

cope

The making of products (things) (noun)

disease

The making of things on a large scale in factories (verb)

breathing

Planning or drawing a product to show what it looks like and how it will work, before it is made (verb)

engineering

To be able to deal successfully with something (verb)

production

Anything to do with the planning, designing and building of engines and machines (noun)

designing

Sickness, illness (noun)

manufacturing

Machines to help with breathing: respirators (plural noun)

## Writing (Friday)

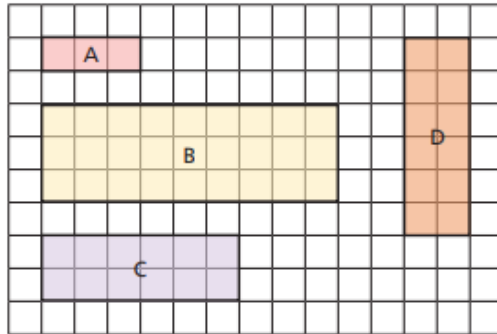
Welcome to our second 100 Word Challenge - a writing competition. You can write whatever you want, inspired by the picture below. You must write no more than 100 words so treat every word like it is gold. Upload whatever writing you do, either a photo or submitted as a Seesaw note, and a winner will be chosen at the end of the school day on Friday. You could write a description, a story, a newspaper article (or part of) or anything you would like at all. Have fun.



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Calculating scale factors

1 Complete the sentences.

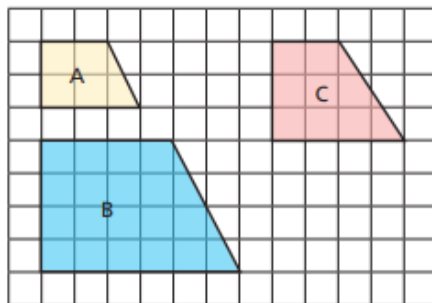


Shape B is an enlargement, by a scale factor of , of shape A.

Shape C is an enlargement, by a scale factor of , of shape A.

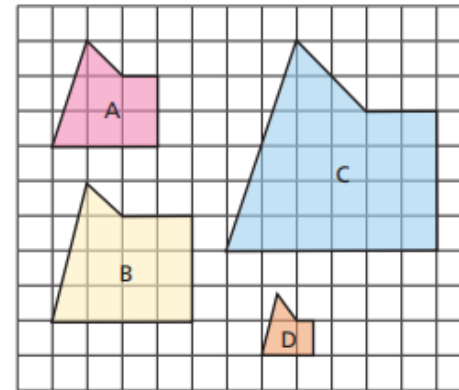
Shape D is an enlargement, by a scale factor of , of shape A.

2 Shape B is an enlargement of shape A. Shape C is not an enlargement of shape A.



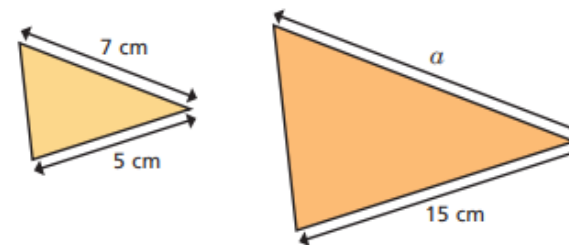
Talk to a partner about why this is the case.

3 Tick all the shapes that are an enlargement of shape A.



How do you know which shapes are enlargements?

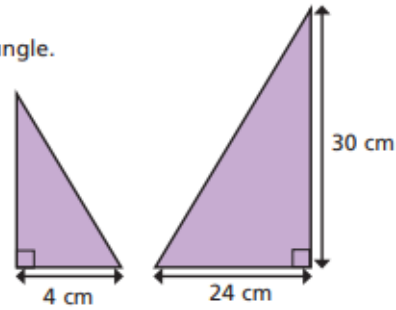
4 The two triangles are similar.  
Find the length of  $\alpha$ .



$\alpha =$   cm

- 5 The two triangles are similar.

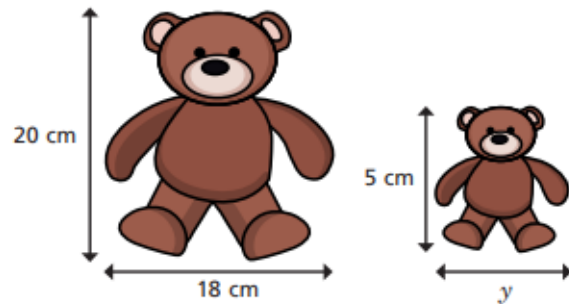
Find the area of the smaller triangle.



area =  cm<sup>2</sup>

- 6 These two children's toys are similar.

Find the length marked  $y$ .

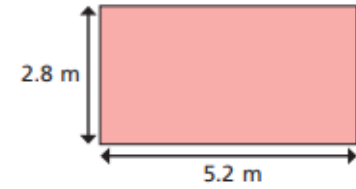


$y =$   cm

- 7 The rectangle is enlarged by a scale factor.

The perimeter of the enlarged rectangle is 64 m.

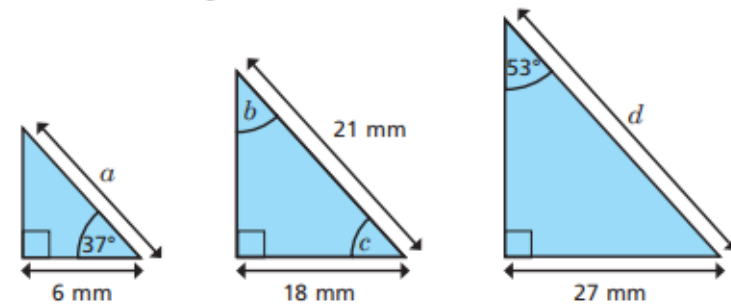
What is the scale factor of enlargement?



scale factor =

- 8 The diagram shows three similar triangles.

Calculate the missing values.



$a =$    $b =$    $c =$    $d =$



Ratio and proportion problems

1 Whitney buys 6 cans of lemonade for £3

a) How much do 12 cans cost?

b) How much do 3 cans cost?

c) How much do 15 cans cost?



2 The ratio of red to green grapes in a bowl is 3:1

a) Explain what this means.

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b) There are 12 more red grapes than green grapes.  
What is the total number of grapes in the bowl?

3 Amir is making some chocolate chip biscuits.

He has this list of ingredients to make 6 biscuits.

**Chocolate chip biscuits (makes 6)**

120 g butter  
72 g sugar  
180 g plain flour  
60 g chocolate chips

a) How much of each ingredient does Amir need to make 2 biscuits?

butter  g

plain flour  g

sugar  g

chocolate chips  g

b) How much of each ingredient does Amir need to make 10 biscuits?

butter  g

plain flour  g

sugar  g

chocolate chips  g

c) Amir has 240 g of chocolate chips.

What is the maximum number of biscuits he can make?



- 4 Dexter has some 20p and 50p coins in a jar.  
For every three 20p coins he has one 50p coin.  
There are 12 coins in the jar in total.  
How much money is in the jar?

- 5 A drink is made using 3 parts orange juice to 2 parts lemonade.  
Esther makes 1.2 litres of this drink.  
How much orange juice does she need?

 ml

- 6 Two shops sell the same cereal but in different-sized boxes.

<b>Shop A</b> 500 g of cornflakes £2.10	<b>Shop B</b> 750 g of cornflakes £3.30
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Which shop is better value for money? Shop \_\_\_\_\_

Explain why.

- 7 Dora draws two similar rectangles.

My larger rectangle is 4 times the size of the smaller one.



The perimeter of the larger rectangle is 48 cm.

The length and width of both rectangles are even numbers.  
What is the largest possible area for the small rectangle?

 cm<sup>2</sup>

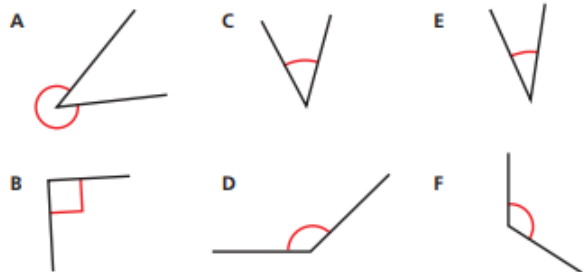
- 8 Aisha has two boxes of sweets.

- In the first box, the ratio of red sweets to green sweets is 3:1
- In the second box, for every 2 orange sweets there are 3 yellow sweets.
- There is the same number of sweets in each box.
- There are 12 yellow sweets in the second box.

How many sweets are in the first box?

Measure with a protractor

1 Here are some angles.



a) Sort the angles into the table.

Acute angle	Obtuse angle	Right angle	Reflex angle

b) How did you decide where to place each angle?

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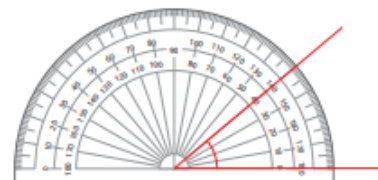
c) Estimate the size of each angle.

A	<input type="text"/>	C	<input type="text"/>	E	<input type="text"/>
B	<input type="text"/>	D	<input type="text"/>	F	<input type="text"/>

Compare answers with a partner.

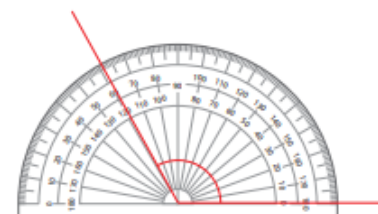
2 Which is the more appropriate value for these angles?

a)



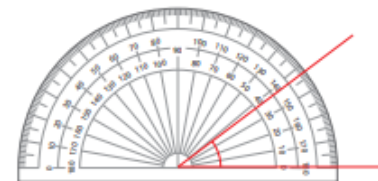
40° 140°

b)



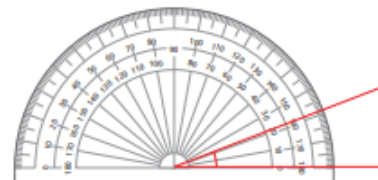
61° 119°

c)



37° 143°

d)

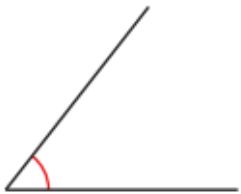



21° 159°


Look at the angles you have **not** circled.  
Why might somebody think they are correct?





3 Estimate each of these angles


a) 

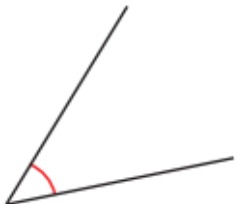
e) 

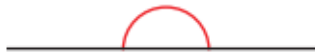
b) 

f) 

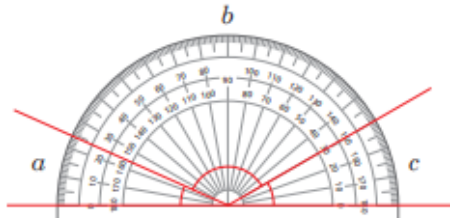
c) 

g) 

d) 

h) 

4 a) Work out the sizes of the angles.



$a =$

$b =$

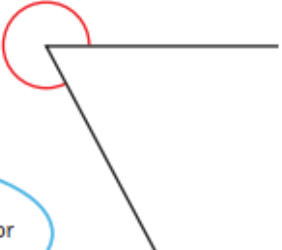
$c =$


b) Discuss with a partner how you worked out each angle.

c) Find the total of your three angles.

What do you notice?  
\_\_\_\_\_

5 Rosie is measuring the size of this angle.



a)  I can't measure it because my protractor doesn't go that far.

Do you agree with Rosie? \_\_\_\_\_

Explain your answer.  
\_\_\_\_\_  
\_\_\_\_\_

b) Measure the size of the angle.

# Introduce angles



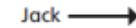
1 Match each angle to its picture and number of right angles.

90°		1 right angle
180°		4 right angles
270°		3 right angles
360°		2 right angles

2 Complete the sentences.

- There is  right angle in a quarter turn.
- A quarter turn is  degrees.
- There are  right angles in a half turn.
- A half turn is  degrees.
- There are  right angles in a three-quarter turn.
- A three-quarter turn is  degrees.
- There are  right angles in a full turn.
- A full turn is  degrees.

3 a) Jack is facing the direction that the arrow is pointing.



He turns a half turn.

Draw a diagram to show the direction he is now facing and the angle he turned through.

How many degrees did he turn through?

b) Dora is facing the direction that the arrow is pointing.



She turns a quarter turn clockwise.

Draw a diagram to show the direction she is now facing and the angle she turned through.

How many degrees did she turn through?

c) Teddy is facing the direction that the arrow is pointing.



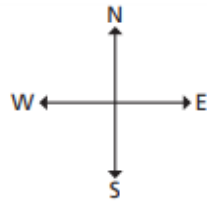
He turns a three-quarter turn.

Draw a diagram to show the two directions he could now be facing and the angles he could have turned through.

How many degrees did Teddy turn through?



4 Here is a compass.



a) Huan is facing north.

He turns half a turn.

What direction is he facing now? \_\_\_\_\_

b) Whitney is facing east.

She turns  $180^\circ$ .

What direction is she facing now? \_\_\_\_\_

c) Alex is facing west.

She turns a quarter turn clockwise.

What direction is she facing now? \_\_\_\_\_

d) Amir is facing west.

He turns  $90^\circ$  anticlockwise.

What direction is he facing now? \_\_\_\_\_

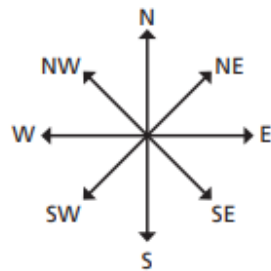
e) Kim is facing south.

What angle does she need to turn through to face east?

\_\_\_\_\_

Is there more than one answer?

5 Here is another compass.



a) Dexter is facing north-east.

He turns half a turn.

What direction is he facing now? \_\_\_\_\_

b) Esther is facing south-west.

She turns  $270^\circ$  anticlockwise.

What direction is she facing now? \_\_\_\_\_

c) Mo is facing south-west.

He turns, and he is still facing south-west.

How many degrees did he turn through?

6 Complete the statements.

a)  $\frac{1}{2}$  of a full turn =

d)  $1\frac{1}{4}$  turns =

b)  $\frac{1}{4}$  of a full turn =

e)  $5\frac{3}{4}$  turns =

c)  $\frac{3}{4}$  of a full turn =

7



I did  $2\frac{1}{3}$  turns.

How many degrees did Eva turn through?

8

Nijah looks at the clock at the start and at the end of her maths lesson.



start

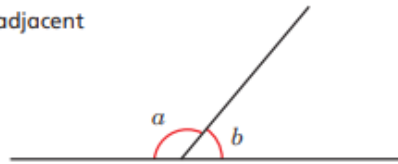


end

How many degrees did the minute hand turn through during the lesson?

## Calculate angles

- 1 Two angles,  $a$  and  $b$ , are adjacent on a straight line.



- a) Measure angles  $a$  and  $b$ .

$a = \boxed{\phantom{00}}$

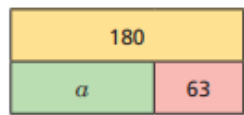
$b = \boxed{\phantom{00}}$

- b) What is the total of the two angles?  $\boxed{\phantom{00}}$

- c) Complete the sentence.

Adjacent angles on a straight line \_\_\_\_\_

- 2 a) Complete the fact family for the bar model.



$a + 63 = \boxed{\phantom{00}}$

$180 - \boxed{\phantom{00}} = a$

$63 + \underline{\phantom{00}} = \boxed{\phantom{00}}$

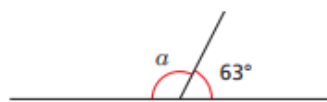
$180 - a = \boxed{\phantom{00}}$

- b) Tick the calculation in part a) that helps you work out the value of  $a$ .

- c) Work out the value of  $a$ .

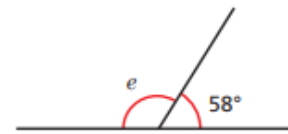
$a = \boxed{\phantom{00}}$

- d) How does the bar model help you to calculate angle  $a$ ?



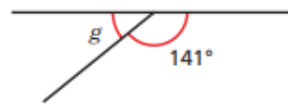
- 3 Work out the unknown angles.

a)



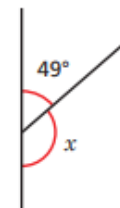
$e = \boxed{\phantom{00}}$

b)



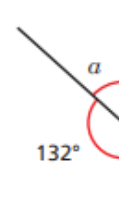
$g = \boxed{\phantom{00}}$

c)



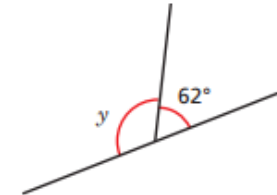
$x = \boxed{\phantom{00}}$

d)



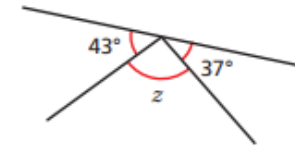
$a = \boxed{\phantom{00}}$

e)



$y = \boxed{\phantom{00}}$

f)



$z = \boxed{\phantom{00}}$

- 4 Dora is facing in the direction shown by the arrow. She does a full turn clockwise.



- a) Show Dora's turn on the diagram.

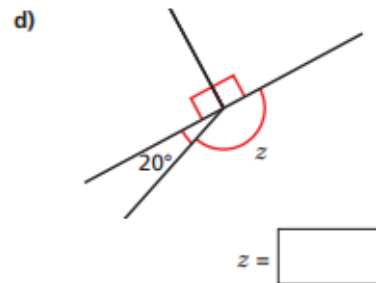
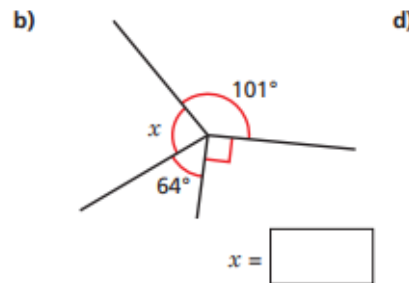
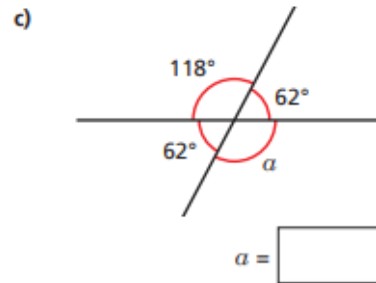
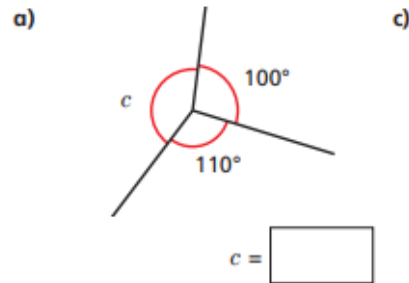
- b) How many degrees did Dora turn through?  $\boxed{\phantom{00}}$

- c) Use your answer to part b) to help you complete the sentence.

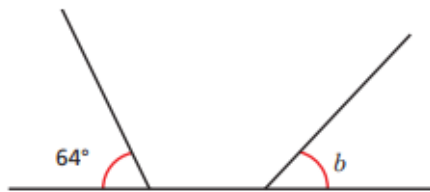
Angles around a point \_\_\_\_\_



5 Work out the unknown angles.



6



Angle  $b$  is  $116^\circ$  because angles on a straight line add up to  $180^\circ$ .



Do you agree with Tommy? \_\_\_\_\_

Explain your answer.

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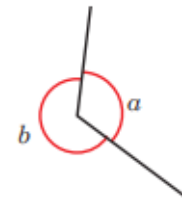


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7

Use the information to work out the unknown angles.

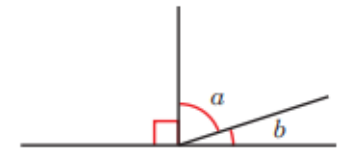
a) Angle  $a$  is half the size of angle  $b$ .



$a = \square$

$b = \square$

b) Angle  $a$  is four times the size of angle  $b$ .



$a = \square$

$b = \square$

8

The pie chart shows some children's favourite snacks.



A quarter of the children said chocolate was their favourite snack.

Five times as many children voted for fruit as voted for sweets.

Work out the size of the angle for each sector in the pie chart.

chocolate  $\square$

sweets  $\square$

fruit  $\square$

## Other Fun Stuff

When you aren't doing some of the work above, why not have a go at something new? Take a look at the things below and don't be scared to let us know how you get on.

There is a whole new website called Wide Open School which is full of links and resources you can visit and try. Check it out [here](#). It's an America-based site so beware that it talks about grades (Year 6 is equivalent to Grade 5) and the times are not in our time zone so you might need to do a bit of conversion. (We are 7 hours ahead.)

Some cool things we have noticed are...

- Virtual rides of Disneyland/Disneyworld rides [here](#)
- Live camera feeds from zoos such as [this](#) one
- Colour wheel scavenger hunts [here](#)

As usual, whatever you have a go at, please let us know and share some photos via Seesaw or Twitter.

Stay safe,

Mr Hague & Mrs Juggins