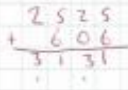
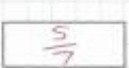
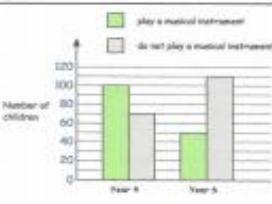
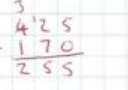
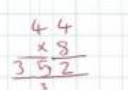
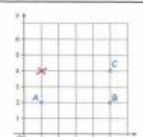
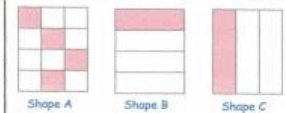


Year 6 5 A Day Answers


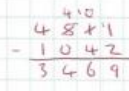


MON

$606 + 2,525$  <div style="border: 1px solid black; padding: 2px; display: inline-block;">3131</div>	$\frac{2}{7} + \frac{3}{7}$  <div style="border: 1px solid black; padding: 2px; display: inline-block;">$\frac{5}{7}$</div>
Round 3,541 to the nearest 100 <div style="text-align: center; font-size: 1.2em;">3500</div>	Round 3,541 to the nearest 1,000 <div style="text-align: center; font-size: 1.2em;">4000</div>
 <p>Number of children</p> <p>Year 4 Year 5</p>	How many students are there in total in Year 4? $100 + 70 = 170$
	How many more Year 4 children than Year 5 children play a musical instrument? $100 - 50 = 50$ <div style="text-align: center; font-size: 1.2em;">50</div>



TUES

$425 - 170$  <div style="border: 1px solid black; padding: 2px; display: inline-block;">255</div>	8×44  <div style="border: 1px solid black; padding: 2px; display: inline-block;">352</div>
Arrange these numbers in order, starting with the largest $15,123$ $15,200$ $15,032$ $15,103$ $15,200, 15,123, 15,103, 15,032$	$15,200$ $15,123$ $15,103$ $15,032$
Three points are shown on a grid. ABCD is a rectangle. Write down the coordinates of the point D <div style="text-align: center; font-size: 1.2em;">(1, 4)</div>	
Two of the shapes have been shaded so that $\frac{1}{3}$ of the shape is pink. Which shape has not been shaded $\frac{1}{3}$ pink? <div style="text-align: center; font-size: 1.2em;">Shape B</div>	

WEDS

$\frac{1}{6}$ of 78  <div style="border: 1px solid black; padding: 2px; display: inline-block;">13</div>	$4,511 - 1,042$  <div style="border: 1px solid black; padding: 2px; display: inline-block;">3469</div>										
Draw a right angle 											
Work out the difference in height between the tallest and smallest mountains in the table. 	<table border="1"> <thead> <tr> <th>Mountain</th> <th>Height</th> </tr> </thead> <tbody> <tr> <td>Mont Blanc</td> <td>4,809 metres</td> </tr> <tr> <td>Ben Nevis</td> <td>1,334 metres</td> </tr> <tr> <td>Corrauntoohil</td> <td>1,038 metres</td> </tr> <tr> <td>Mount Vancouver</td> <td>4,812 metres</td> </tr> </tbody> </table>	Mountain	Height	Mont Blanc	4,809 metres	Ben Nevis	1,334 metres	Corrauntoohil	1,038 metres	Mount Vancouver	4,812 metres
Mountain	Height										
Mont Blanc	4,809 metres										
Ben Nevis	1,334 metres										
Corrauntoohil	1,038 metres										
Mount Vancouver	4,812 metres										
Ryan has these digit cards. <div style="display: flex; gap: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">2</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">6</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">7</div> </div> He makes a 1-digit and a 2-digit number. He multiplies them together and the answer is a multiple of 4 .	What could Ryan's multiplication be? 2×76 or 6×72										

THURS

$3.4 + 5.8$  <div style="border: 1px solid black; padding: 2px; display: inline-block;">9.2</div>	16×100 <div style="border: 1px solid black; padding: 2px; display: inline-block;">1600</div>
	How much money does Dylan have? <div style="text-align: center; font-size: 1.2em;">£25</div>
50% of 180 = 90	
The numbers in this sequence increase by the same amount each time. Find the missing numbers	<div style="display: flex; align-items: center; gap: 10px;"> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">58</div> <div>73</div> <div>88</div> <div style="border: 1px solid black; border-radius: 50%; padding: 2px;">103</div> <div>118</div> </div>

FRI

$$\boxed{3200} = 2,300 + 900$$

$$9 \times 62$$

$$\begin{array}{r} 2300 \\ + 900 \\ \hline 3200 \end{array}$$

3200

$$\begin{array}{r} 62 \\ \times 9 \\ \hline 558 \end{array}$$

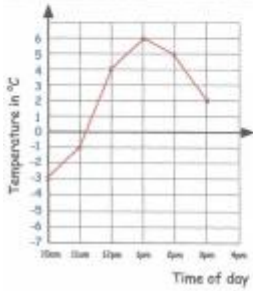
558

A song lasts 3 minutes 37 seconds.

How long does the song last in seconds?

$$3 \times 60 = 180$$

$$\begin{array}{r} 180 \\ + 37 \\ \hline 217 \end{array}$$



How many degrees warmer was it at 1pm than at 11am?

$$6 - -1 = 7$$

At 4pm the temperature was 5 degrees lower than at 3pm.

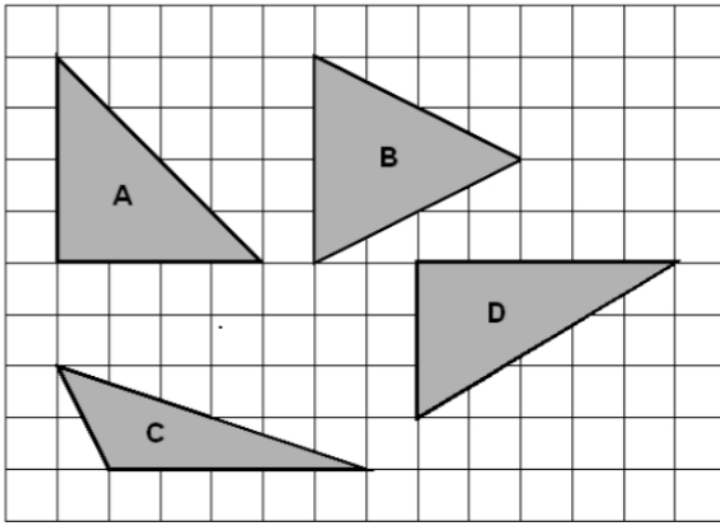
What was the temperature at 4pm?

$$2 - 5 = -3$$

-3°C

Year 6: Angles Practise answers

Practise 1



Write the letter for each triangle in the correct region of the sorting diagram.

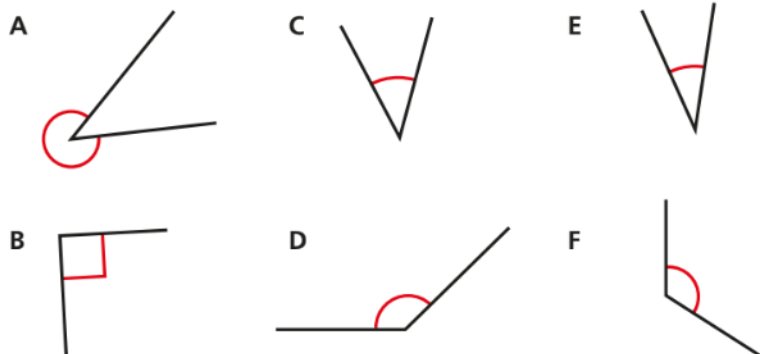
One has been done for you.

	has a right angle	has an obtuse angle	has 3 acute angles
is isosceles	A		
is not isosceles	D	C	B

Practise 2: 270

Practise 3: False – a triangle could have angles of 60, 60, 60, plus many other options.

Here are some angles.

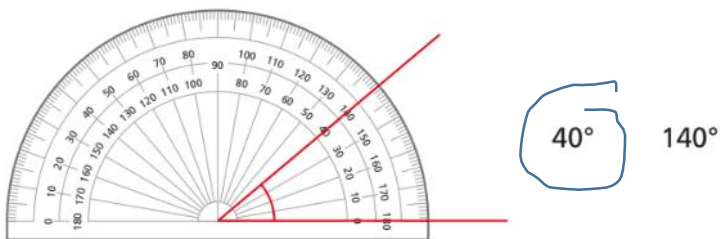


a) Sort the angles into the table.

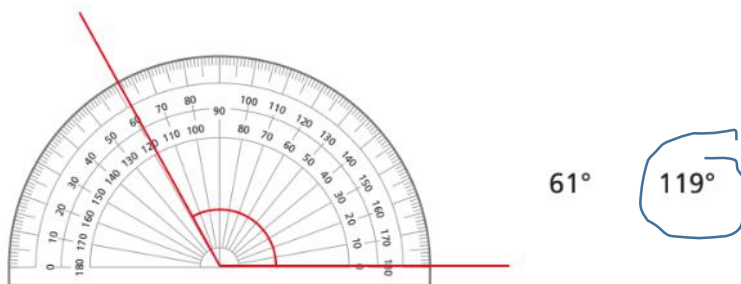
Acute angle	Obtuse angle	Right angle	Reflex angle
C E	D F	B	A

2 What is the size of each angle? Circle your answer.

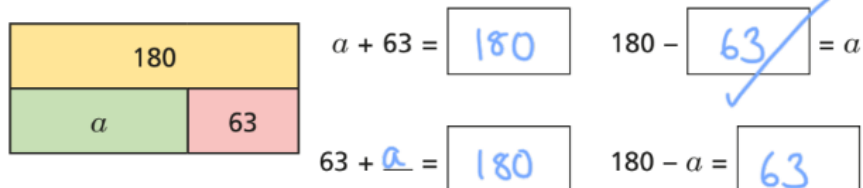
a)



b)



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



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

c) Work out the value of a .

$a = 117$

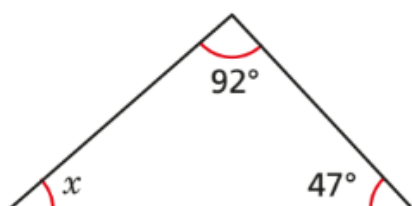
d) How does the bar model help you to calculate angle a ?



2 Work out the sizes of the unknown angles.

Give reasons for your answers.

a)



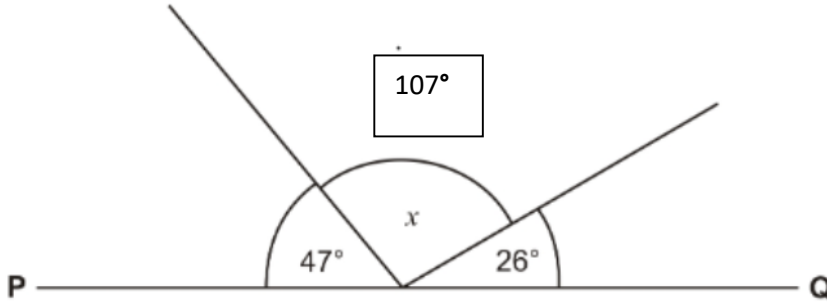
$x = 41^\circ$ because angles in a triangle sum to 180°

Year 6: Angles Evidence answers

ARE 1

PQ is a straight line.

Not drawn accurately



Calculate the size of angle x .

ARE 3

Jamie draws a triangle.

He says,

'Two of the three angles in my triangle are obtuse'.

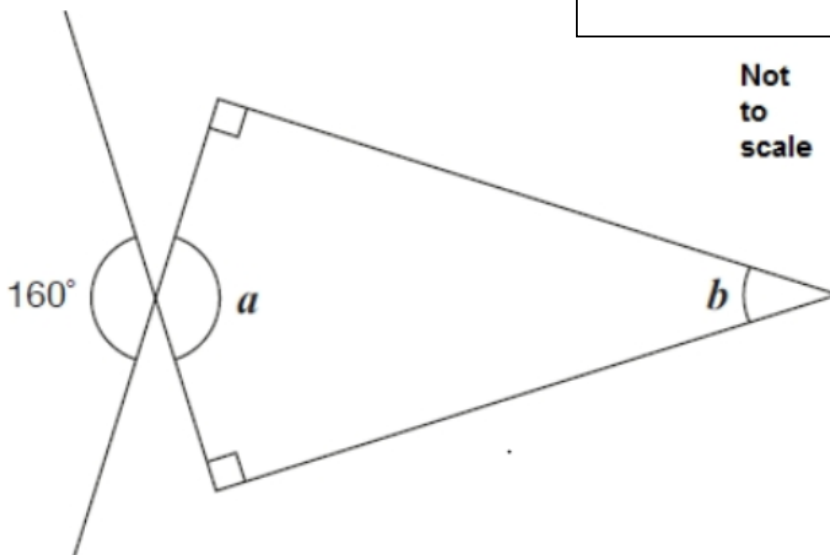
Explain why Jamie **cannot** be correct.

He can't be correct because obtuse angles must be over 90° , so two obtuse angles are already over 180° before even adding the third angle. The total would be over 180° .

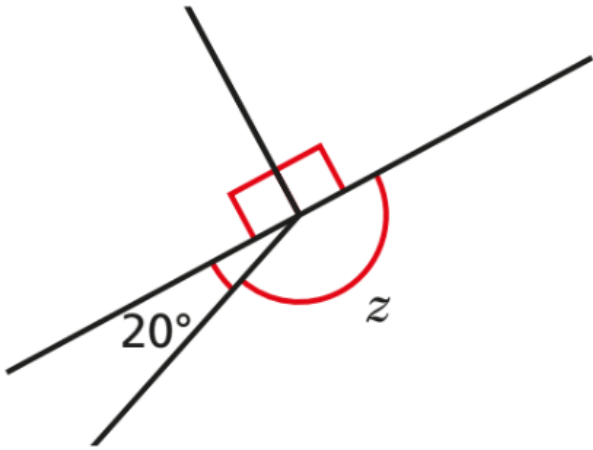
ARE 6

Calculate the size of angles a and b in this diagram.

$$a = 160^\circ \quad b = 20^\circ$$

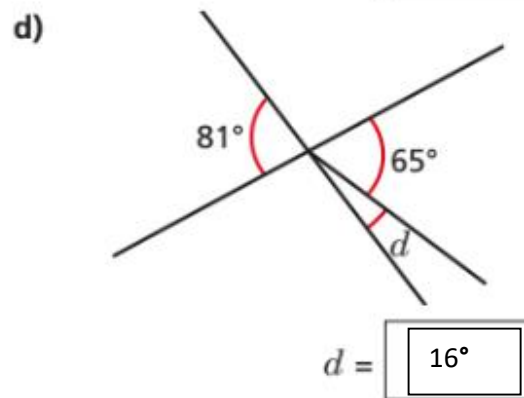
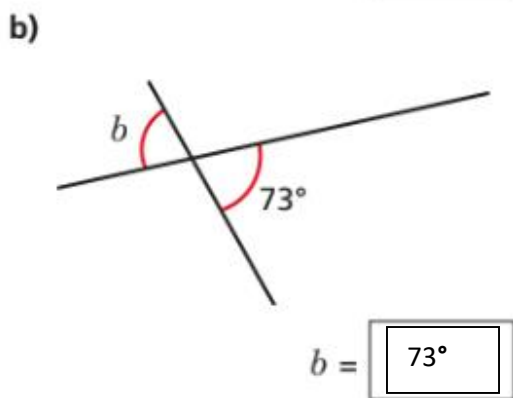
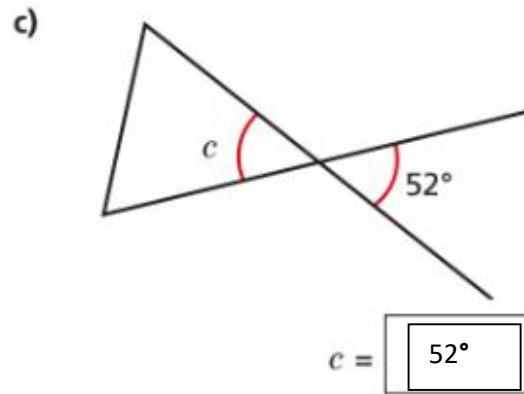
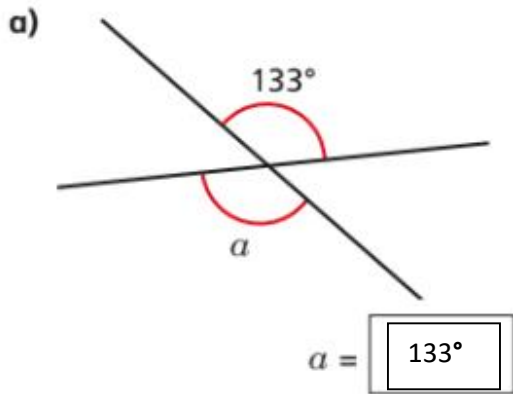


Not to scale

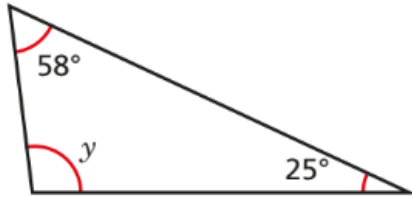


$$z = \boxed{160^\circ}$$

5 Work out the unknown angles.



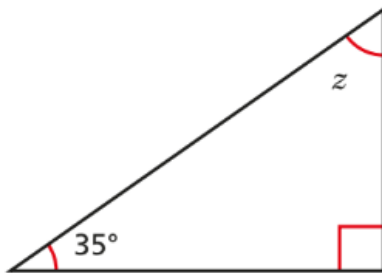
b)



$y =$ $^\circ$ because _____

The three angles must add up to 180° .

c)

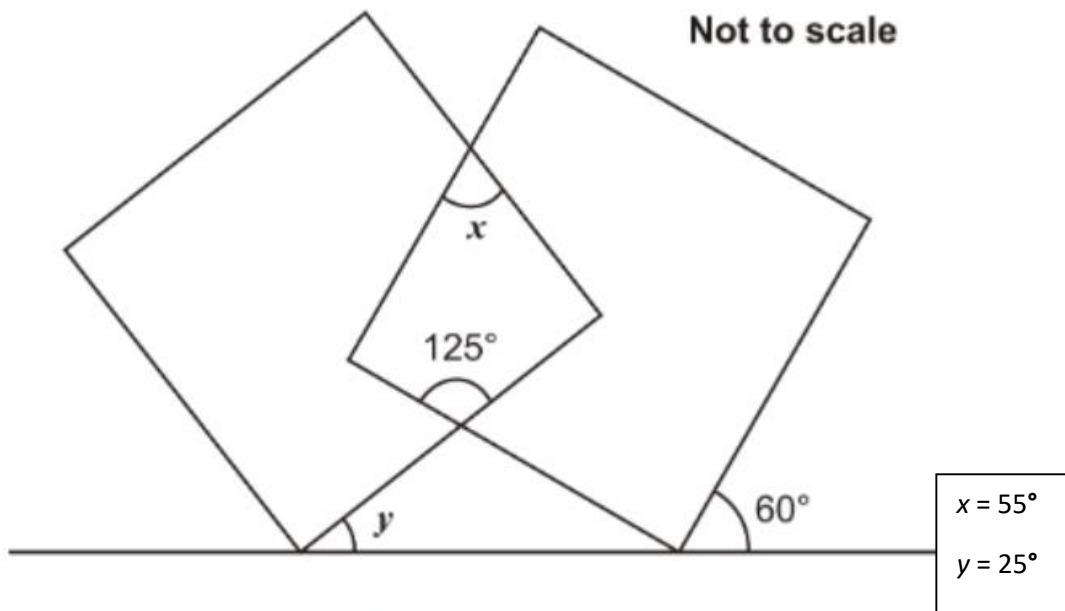


$z =$ $^\circ$ because _____

The three angles must add up to 180° and we already have 35° and 90° .

ARE 8

The diagram shows two overlapping squares and a straight line.

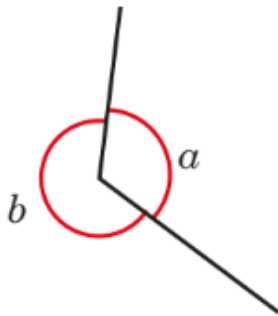


Calculate the value of **angle x** and the value of **angle y** .

Year 6: Angles Extension answers

7 Use the information to work out the unknown angles.

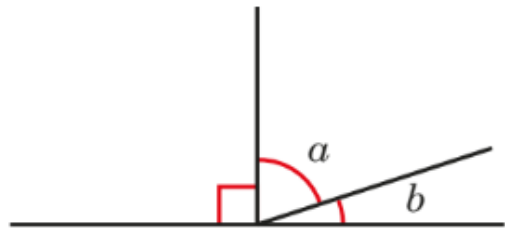
a) Angle a is half the size of angle b .



$$a = 120^\circ$$

$$b = 240^\circ$$

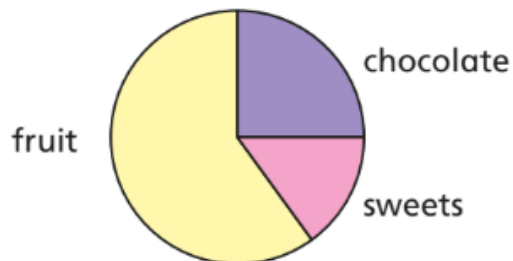
b) Angle a is four times the size of angle b .



$$a = 72^\circ$$

$$b = 18^\circ$$

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 90°

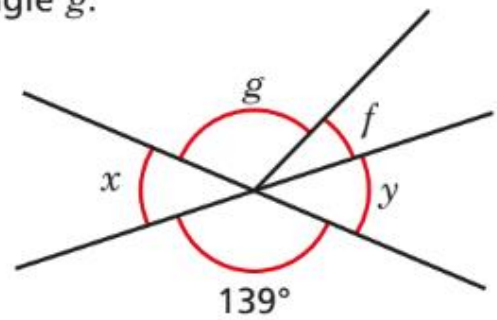
sweets 45°

fruit 225°

7

Angle f is one quarter of the size of angle g .

Angle f is 28° .



Are angles x and y vertically opposite? NO

Explain your answer.

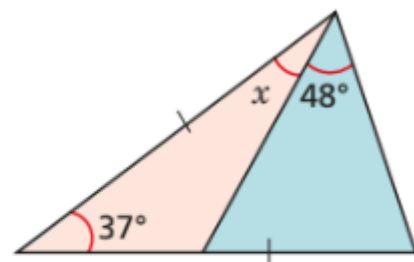
$$28 \times 4 = 112 \quad \text{so } g = 112^\circ$$

$$112 + 28 = 140$$

$139 \neq 140$ therefore the diagram does not show vertically opposite angles.

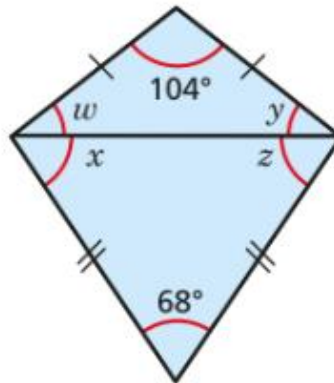
5

Work out the size of angle x .



$$x = \boxed{23.5^\circ}$$

- 5 Two isosceles triangles are joined to form a kite.
 a) Work out the sizes of the unknown angles.



$$w = \boxed{38^\circ} \quad y = \boxed{38^\circ} \quad x = \boxed{56^\circ} \quad z = \boxed{56^\circ}$$

- b) Work out $w + x$.

$$\boxed{94^\circ}$$

- c) Work out $y + z$.

$$\boxed{94^\circ}$$

What do you notice? Talk about it with a partner.