Year 6 Maths Home Learning

Week four includes:

- 5 a day – one for each school day (set a timer for between 3 and 5 minutes)
- Maths I do you do – read the power point (40 minutes)
- Practice questions (60 minutes)
- Evidence questions (60 minutes)
- Extension questions – are you up for a challenge? (as long as it takes!)

YEAR 6   5 A DAY   WEEK 4 DAY 1
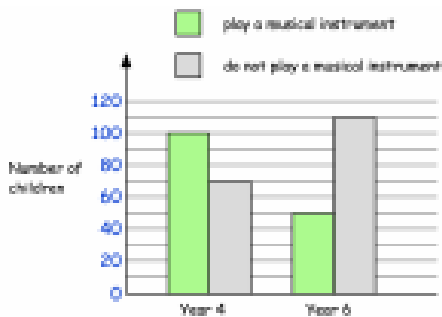
DAY 1	

$606 + 2{,}525$

$$\frac{2}{7} + \frac{3}{7}$$

Round 3,541 to the nearest 100

Round 3,541 to the nearest 1,000

play a musical instrument

do not play a musical instrument

Number of children

120
100
80
60
40
20
0

Year 4   Year 6

How many students are there in **total** in Year 4?

How many **more** Year 4 children than Year 6 children play a musical instrument?

www.corbettmaths.com

Name: _____   Primary 5-a-day   Silver

DAY 2	
$425 - 170$	8×44
Arrange these numbers in order, starting with the largest 15,123 15,200 15,032 15,103	
Three points are shown on a grid. ABCD is a rectangle. Write down the coordinates of the point D	
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?	 Shape A Shape B Shape C

$\dfrac{1}{6}$ of 78

4,511 − 1,042

Draw a right angle

Work out the **difference** in height between the tallest and smallest mountains in the table.

Mountain	Height
Mont Blanc	4,809 metres
Ben Nevis	1,334 metres
Carrauntoohil	1,038 metres
Mount Vancouver	4,812 metres

Ryan has these digit cards.

| 2 | | 6 | | 7 |

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?

☐ × ☐ ☐

YEAR 6   5 A DAY   WEEK 4   DAY 4

DAY 4

$3.4 + 5.8$

16×100

Ben	◯ ◯ ◯ ◯ ◖
Caro	◯ ◯
Dylan	◯ ◯ ◖
Ellie	◯ ◯ ◯ ◯ ◯

Key ◯ = £10

How much money does Dylan have?

Super Bowl LII will take place in 2018.

Write LII in **figures**

The numbers in this sequence increase by the same amount each time.

Find the missing numbers

☐ 73 88 ☐ 118

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

9×62

A song lasts 3 minutes 37 seconds.

How long does the song last in seconds?
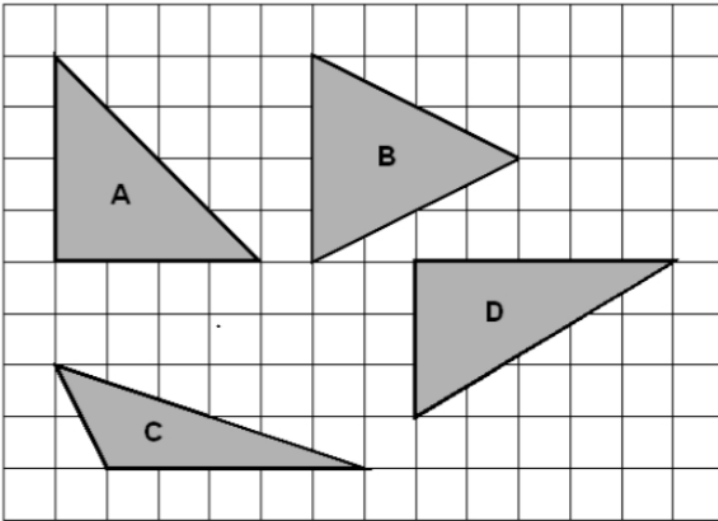

Temperature in °C

Time of day
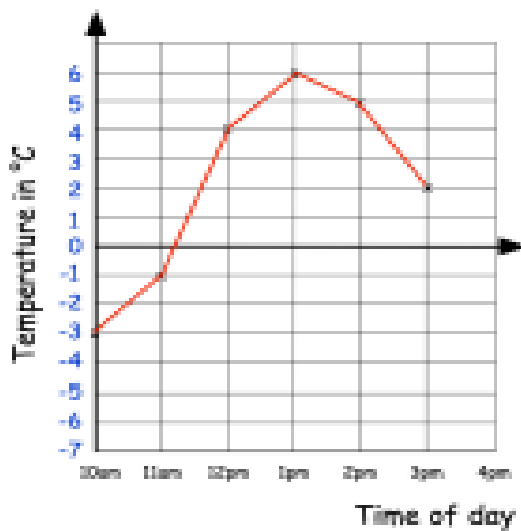
How many degrees **warmer** was it at 1pm than at 11am?

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

What was the temperature at 4pm?
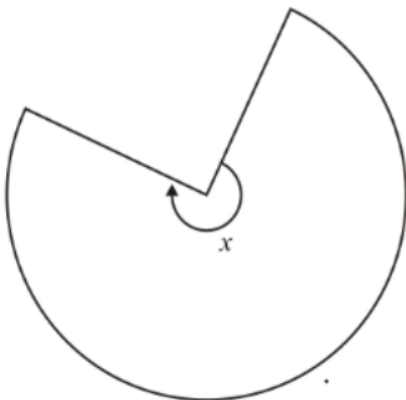
Year 6: Angles Practise Questions

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			

Practise 2
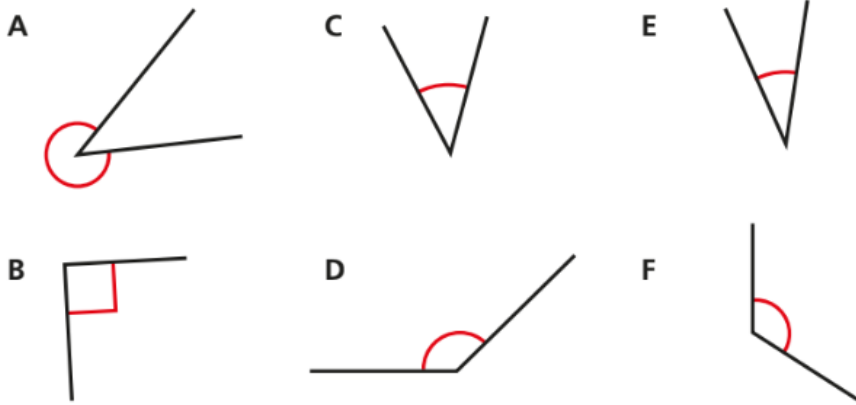
This shape is **three-quarters of a circle**.

How many degrees is **angle x**?

Practise 3—EXPLAIN

True or False?

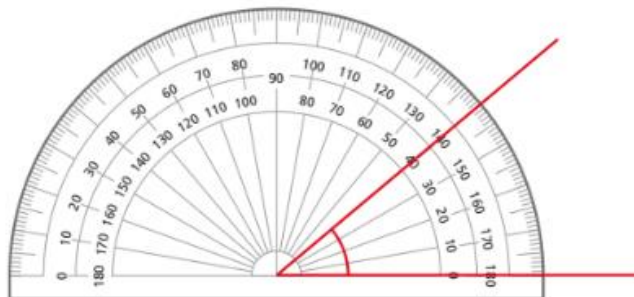A triangle can never have 3 acute angles.

Here are some angles.

A

C

E

B

D

F

a) Sort the angles into the table.

Acute angle	Obtuse angle	Right angle	Reflex angle

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

a)

40°   140°

b)
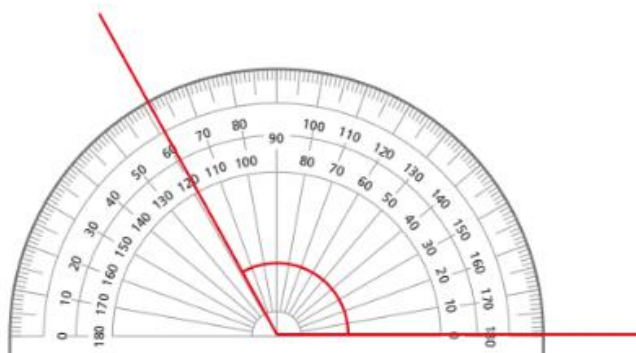
61°   119°

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

180	
a	63
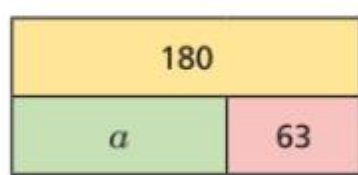
$a + 63 =$ ⬚

$180 -$ ⬚ $= a$

$63 +$ ___ $=$ ⬚

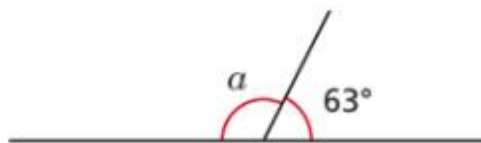$180 - a =$ ⬚

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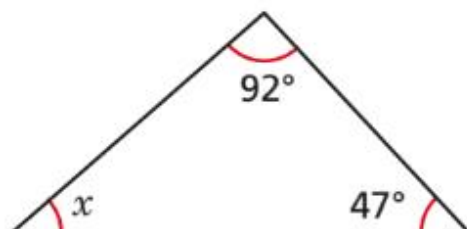
c) Work out the value of a.

$a =$ ⬚

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

2 Work out the sizes of the unknown angles.

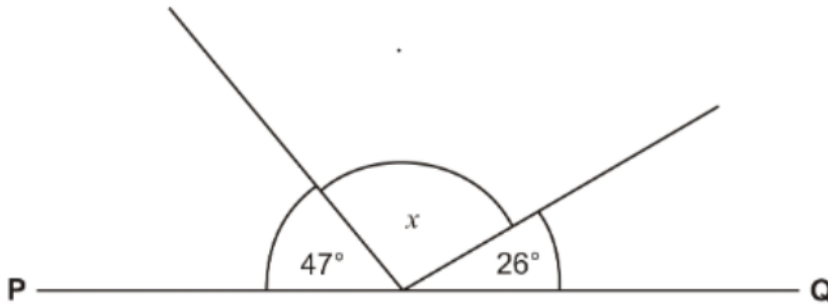Give reasons for your answers.

a)

$x =$ ⬚ because _____

_____

Year 6: Angles evidence Questions

ARE 1

PQ is a straight line.

Not drawn accurately

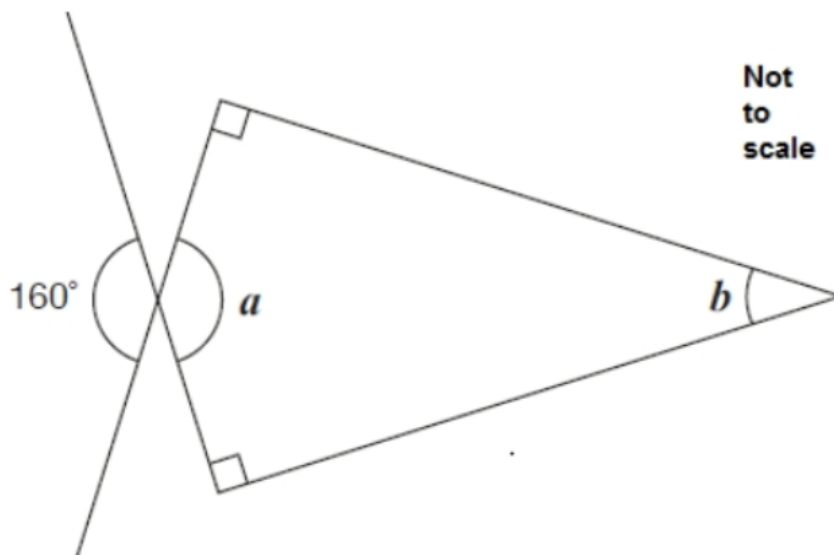Calculate the size of angle x.

ARE 3

Jamie draws a triangle.

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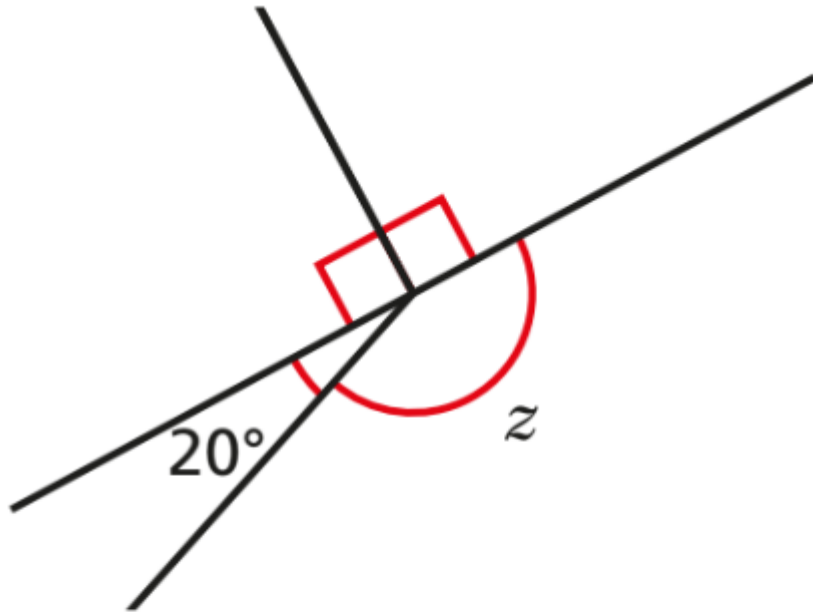
'Two of the three angles in my triangle are obtuse'.

Explain why Jamie **cannot** be correct.

ARE 6

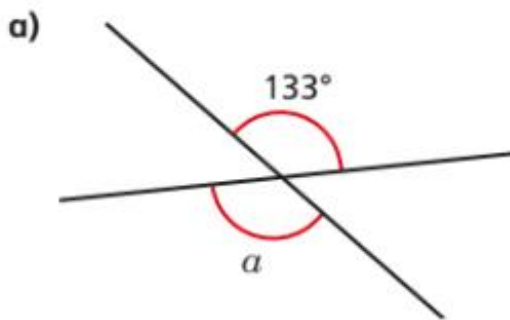Calculate the size of angles a and b in this diagram.
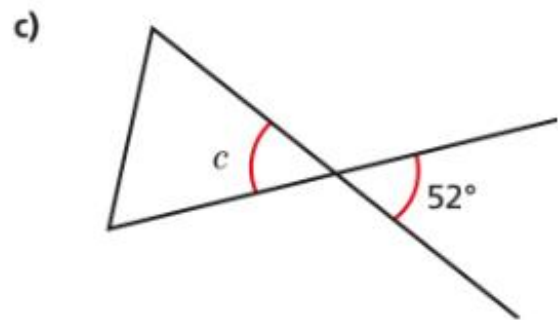
Not to scale

$$z = \boxed{}$$
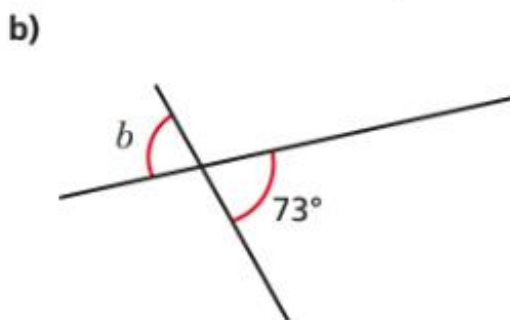
5 Work out the unknown angles.

a)

133°

a

$a = \boxed{}$

b)

b

73°

$b = \boxed{}$

c)

c

52°

$c = \boxed{}$

d)

81°

65°

d

$d = \boxed{}$

b)

58°

y

25°

$y = $ ⬚ because _____

_____

c)

z

35°
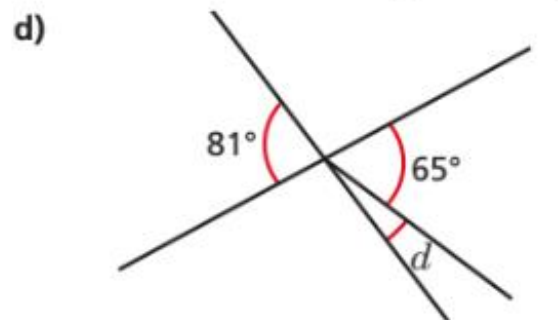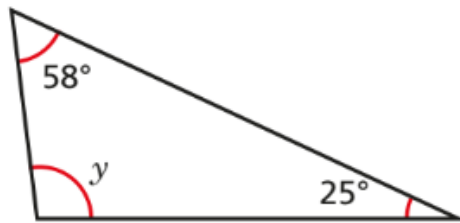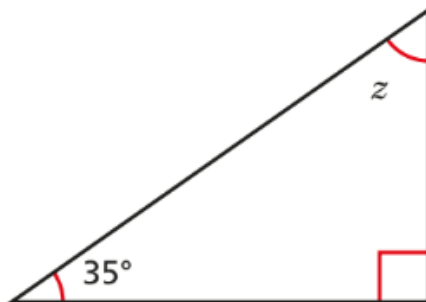
$z = $ ⬚ because _____

_____

ARE 8

The diagram shows two overlapping squares and a straight line.

Not to scale

x

125°

60°

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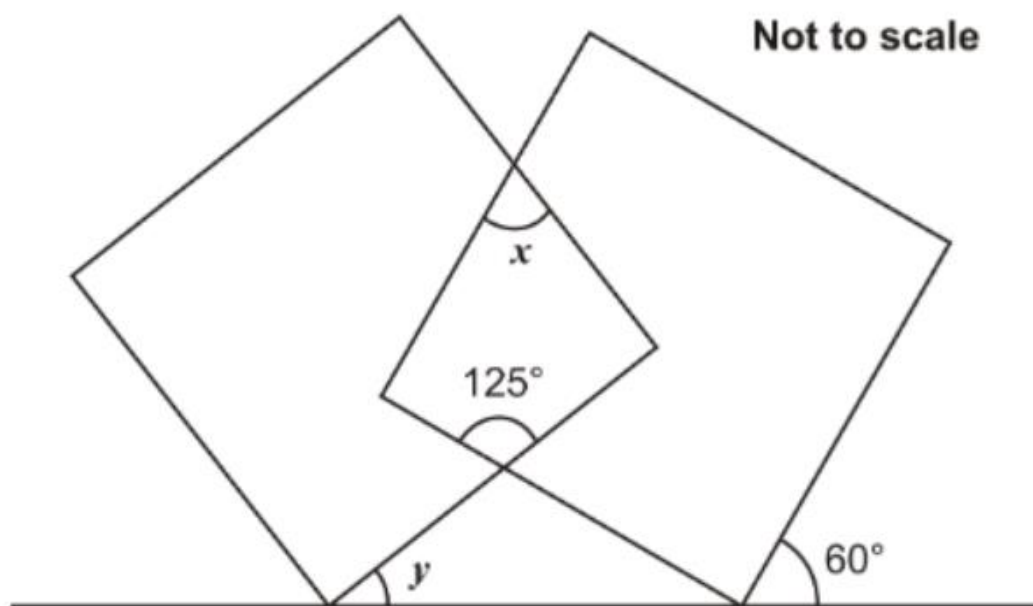
Calculate the value of **angle x** and the value of **angle y**.

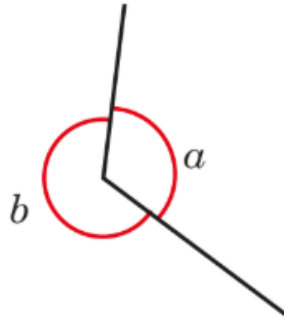## Year 6: Angles extension Questions

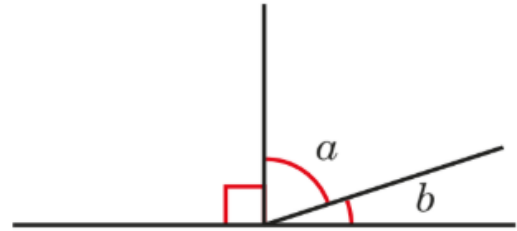**7** Use the information to work out the unknown angles.

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

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

$a =$ ____

$b =$ ____

$a =$ ____

$b =$ ____

8 The pie chart shows some children's favourite snacks.

chocolate
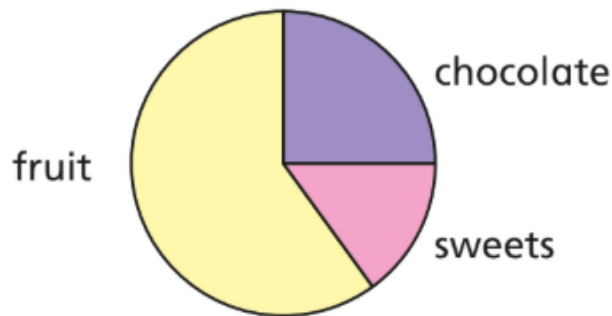
fruit

sweets

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

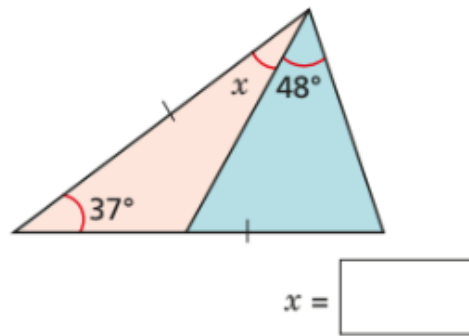Five times as many children voted for fruit as voted for sweets.

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

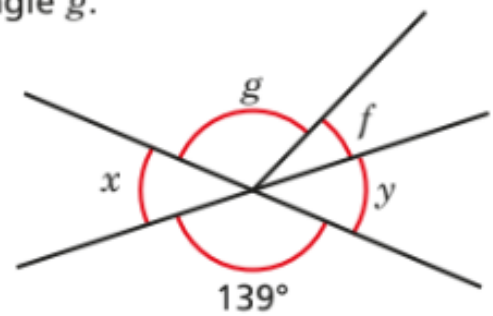chocolate ____   sweets ____   fruit ____

5 Work out the size of angle x.

$$x = \boxed{}$$

7 Angle f is one quarter of the size of angle g.
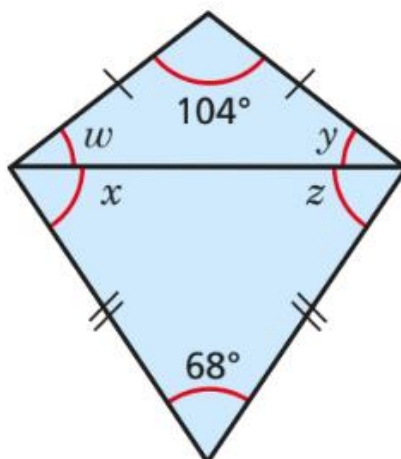
Angle f is 28°.

Are angles x and y vertically opposite? _____

Explain your answer.

5 Two isosceles triangles are joined to form a kite.

a) Work out the sizes of the unknown angles.

$w =$ ⬚ $y =$ ⬚ $x =$ ⬚ $z =$ ⬚

b) Work out $w + x$.

⬚

c) Work out $y + z$.

⬚

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