Year 6

Friday 24th April 2020
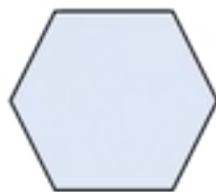
Maths

Try the flashback 4 on the next slide.

1) The angles in a triangle add up to which total?

$90°$ $180°$ $270°$ $360°$

2) Estimate the size of the angle.

3) Write down the ratio of carrots to apples.

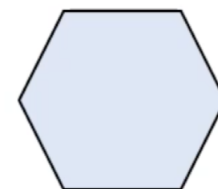4) Write $\dfrac{13}{20}$ as a percentage.

1) The angles in a triangle add up to which total?

90°   180°   270°   360°   **180°**

Hexagon

2) Estimate the size of the angle.   **about 150°**

3) Write down the ratio of carrots to apples.

5 : 2

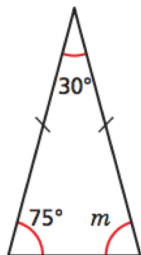4) Write $\frac{13}{20}$ as a percentage.   **65%**

White Rose Maths

This will teach you everything you need to know.

The independent work continues on the next two slides.

There are 7 questions and 3 extensions.

1 Here is a triangle.

30°

75° *m*

a) What type of triangle is it?

_____

How do you know?

_____

_____

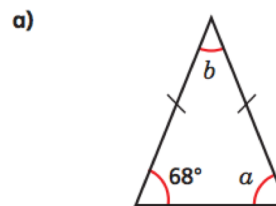b) Work out the size of angle *m*.

[ ]

c) What do you notice?

d) Complete the sentence to describe the angles in an isosceles triangle.
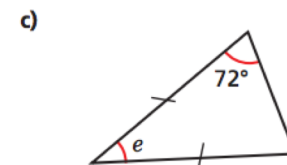
In an isosceles triangle _____

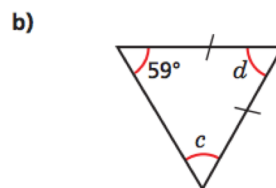**2** Identify and label the angles that will be equal in each triangle.
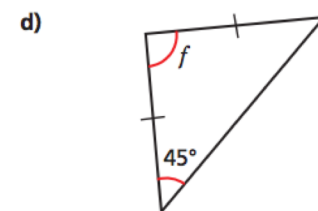

3 Work out the sizes of the unknown angles.

a)

b

68° *a*

a = [ ]   *b* = [ ]

b)

59° *d*

c

c = [ ]   *d* = [ ]
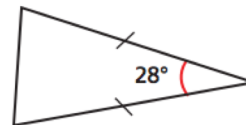
c)

72°

e

e = [ ]

d)

f

45°

f = [ ]

Talk about your reasons with a partner.

4 Dexter is working out the unknown angles in triangles.

28°

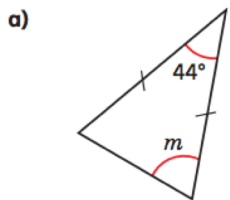> I can't work out either of the missing angles because I don't have enough information.

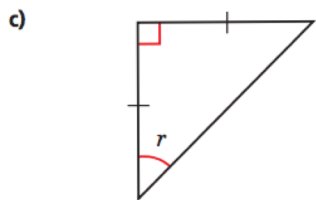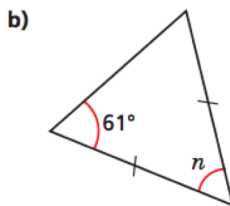Do you agree with Dexter? _____

Explain your answer.

_____

_____

5 Work out the sizes of the unknown angles.

a)

$m = $ ☐

c)

$r = $ ☐

b)

$n = $ ☐

d)
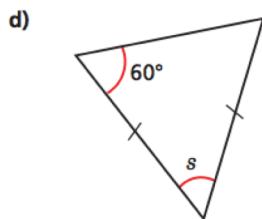
$s = $ ☐

6 Whitney and Jack are working out the angles in this triangle.

Whitney: I can't work out the angles in this triangle because I don't know any of them.

Jack: I know the size of all the angles in this triangle.
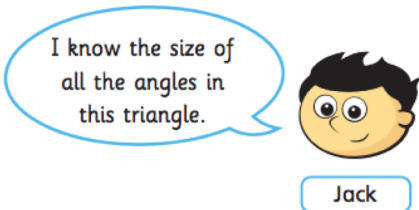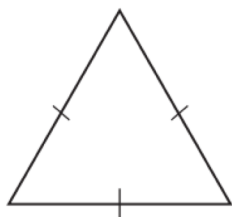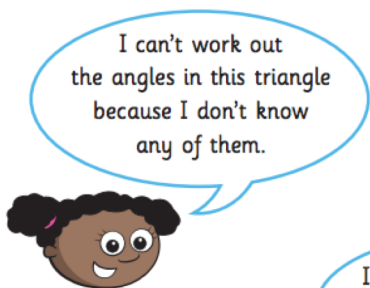
Who do you agree with? _____

Talk about it with a partner.

7 Are the statements true or false?

a) Every isosceles triangle is equilateral. _____

b) Every equilateral triangle is isosceles. _____

c) A right-angled triangle can be equilateral. _____

d) A right-angled triangle can be isosceles. _____

Explain your answers to a partner.

Ext 1 Two angles in a triangle are 43° and 74°.

Is the triangle isosceles? _____

Show your workings.

Ext 2 One angle in an isosceles triangle is 29°.

What could the other angles be? Give two possible answers.

_____

Ext 3 Angle b is twice the size of angle a.

Work out the size of angle c.

☐