

Year 6

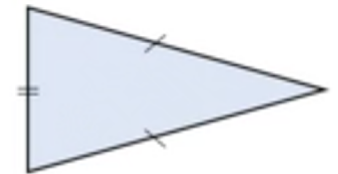
Wednesday 22nd April 2020

Maths



[The video lesson is available here](#)

1) Four pens cost 80p.
How much will five of the same pens cost?



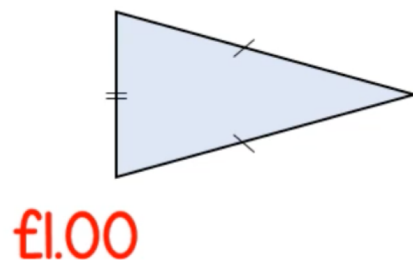
2) Riddle of the Day:
Where can you find cities, towns, shops, and streets but no people?

3) Write down the ratio of circles to squares.



4) Solve the equation $a + 45 = 76$

- 1) Four pens cost 80p.
How much will five of the same pens cost?



- 2) Riddle of the Day:

A map!

- 3) Write down the ratio of circles to squares.

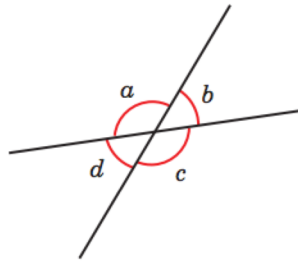


3 : 1

- 4) Solve the equation $a + 45 = 76$ $a = 31$

Vertically opposite angles

- 1 The diagram shows four angles formed by two straight lines.



- a) Measure the sizes of the angles.

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

- b) What is the total of angles a and b ?

Explain why.

Do any other pairs of angles have this same total?

- c) Angles a and c are vertically opposite angles.

What do you notice about the sizes of angles a and c ?

- d) Angles b and d are also vertically opposite angles.

What do you notice about the sizes of angles b and d ?

- e) Complete the sentence.

Vertically opposite angles _____

- 2 Tick the pairs of angles that are vertically opposite.



a)



b)



c)



d)



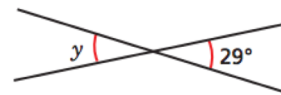
e)

Compare answers with a partner.

- 3 Work out the sizes of the unknown angles.

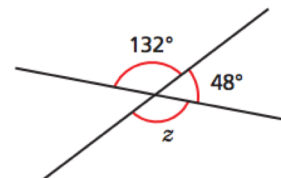
Give reasons for your answers.

- a)



$y =$ $$ because _____

- b)



$z =$ $$ because _____

Independent work

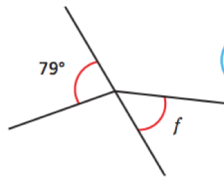
Independent work continues on the following slide.

There are 3 questions, question 7 is the ext plus two extensions if you wish to challenge yourself.



[The video lesson is available here](#)

- 4 Annie is working out the size of angle f .



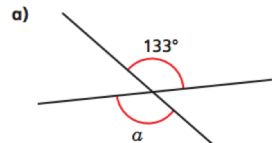
Angle f is equal to 79° because vertically opposite angles are equal.



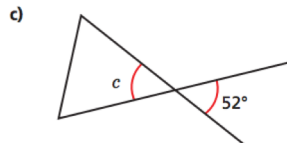
Do you agree with Annie? _____

Explain your answer.

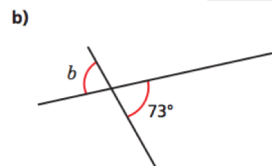
- 5 Work out the unknown angles.



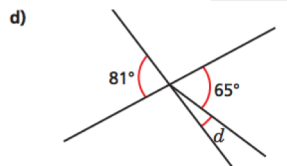
$a = \square$



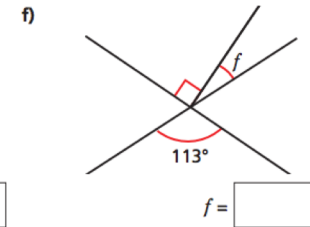
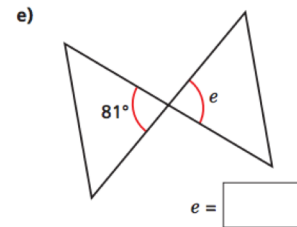
$c = \square$



$b = \square$

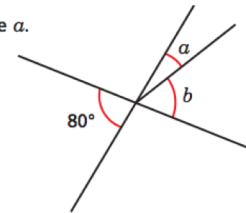


$d = \square$



Talk about your reasons with a partner.

- 6 Angle b is three times the size of angle a .

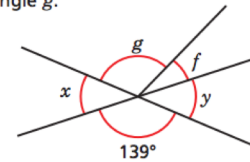


Work out the sizes of angles a and b .

$a = \square$ $b = \square$

Ext: 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.
