Maths Problems

Here are 10 maths problems for you to think about. The answers are on the following slide. Try not to peep until you have solved the problem, or had a good think about it.

If you can, talk to someone about the problem.

1.

Tom says that the perimeter and area of a rectangle can be the same.

Is he right?

Explain your thinking.

1.

They can only be the same in a square with sides of length 4

2.

The perimeter of a regular octagon is 160cm.

What is the length of one side?

2.

20cm

3.

Chloe has a bag full of shapes.

She has 6 pentagons, 2 hexagons and 6 octagons.

All the sides of the shapes are the same length.

If the length is 2cm, what is the total length of sides in her bag?

3.

180cm

4.

Tyler had 5 metres of plank.

He cut off two pieces. One was 1.35cm long and the other was238cm long.

How much wood did he cut off altogether?

How much wood did he have left?

4.

3.73m

1.27m

5.

Lily has raised £2,678 in a sponsored swim.

She decides to share the money between he 10 favourite charities.

How much does each charity get?

5.

£267.80

6.

Tickets for the cinema cost £5.40.

Ryan buys tickets to go to the cinema with 5 friends.

How much does this cost altogether?

6.

£32.40

7.

Alfie emptied his moneybox.

He had twenty 50p coins, thirty 20p coins and sixty 10p coins.

How much money did he have altogether?

7.

£22.00

8.

At a music festival a veggie burger and two milk shakes cost £5.80.

If the burger cost £3.60, what is the price of one milk shake?

8.

£1.10

9.

Sophie raised £9.60 in a sponsored run.

Her Dad offered to double what she raised.

How much did she raise altogether?

9.

£28.80

10.

Harry has £1,400 in his wallet in £10 notes.

How many £10 notes does he have?

He spent £500.

How many £10 notes does he have left?

10.

140

90

And finally…

a question for you to think about.

Is mathematics an invention… or a discovery?