

Mixed Exercise 3

1.

Change 30 metres per second to kilometres per hour.

..... kilometres per hour

2.

Jo is going to buy 15 rolls of wallpaper.

Here is some information about the cost of rolls of wallpaper from each of two shops.

Chic Decor 3 rolls for £36	Style Papers Pack of 5 rolls normal price £70 12% off the normal price
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Jo wants to buy the 15 rolls of wallpaper as cheaply as possible.

Should Jo buy the wallpaper from Chic Decor or from Style Papers?

You must show how you get your answer.

3.

Rick, Selma and Tony are playing a game with counters.

Rick has some counters.

Selma has twice as many counters as Rick.

Tony has 6 counters less than Selma.

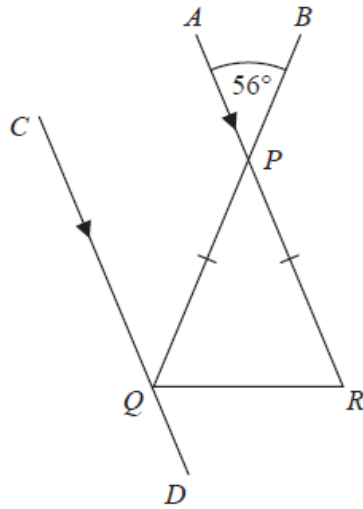
In total they have 54 counters.

the number of counters Rick has : the number of counters Tony has = $1 : p$

Work out the value of p .

4.

In the diagram, PQR is an isosceles triangle with $PQ = PR$.



APR and CQD are parallel lines.
 BPQ is a straight line.

Angle $APB = 56^\circ$

Work out the size of angle CQR .
Give a reason for each stage of your working.

5.

There are 400 counters in a box.
The counters are red or yellow or green.

$\frac{3}{8}$ of the counters are red.

82 of the counters are yellow.

What percentage of the counters are green?

6.

(a) Write 2530 correct to 2 significant figures.

.....
(1)

(b) Write 0.0874 correct to 1 significant figure.

.....
(1)

7.

In Spain, Sam pays 27 euros for 18 litres of petrol.

In Wales, Leo pays £40.80 for 8 gallons of the same type of petrol.

1 euro = £0.85
4.5 litres = 1 gallon

Sam thinks that petrol is cheaper in Spain than in Wales.

Is Sam correct?

You must show how you get your answer.