

Extra Maths Challenges: Wednesday 20th January 2021

On the dance floor there are 24 legs.

The disco is full of dogs (each with 4 legs) and storks (each with 2 legs).

How many dogs and storks are there?

You must have at least one of each creature.

There are a few possible combinations.

How many can you find?

Challenge

Some spiders come to join the party (each with 8 legs).

There are still 24 legs in total.

How many spiders, dogs and storks are there?

You must have at least one of each creature.

There are a few possible combinations.

How many can you find?



How many pencils are there?

Complete the multiplications.



$$\square \times \square = \square$$

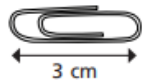


$$\square \times \square = \square$$



$$\square \times \square = \square$$

A paper clip is 3 cm long.



a) What is the total length of 2 paper clips?

b) What is the total length of 4 paper clips?

c) What is the total length of 8 paper clips?

Work out the value of each shape.

$$\text{Red Circle} + \text{Red Circle} + \text{Red Circle} + \text{Red Circle} = 16$$

$$\text{Red Circle} \times \text{Green Triangle} = 32$$

$$\text{Green Triangle} \times 1 = \text{Blue Square} \times \text{Blue Square} \times \text{Blue Square}$$

Tennis balls come in packets of 2, 4 and 8

Rosie buys 5 of each different size pack.

How many tennis balls does she buy altogether?

Show your workings.

