

Y4 Correspondence Problems

KS2 Y4 Maths · Follows the national curriculum

Name _____ Class _____ Date _____

1. Worked example

Priya has 4 T-shirts and 3 pairs of shorts. How many different outfits can she make?

Step 1 · Each T-shirt can go with each pair of shorts

Each T-shirt makes 3 outfits

Step 2 · There are 4 T-shirts

$$4 \times 3 = 12$$

Answer: 12 different outfits

Check: Draw a table with 4 rows and 3 columns and count the boxes ✓

2. Now try one with the steps

A recipe uses 3 eggs for every 2 cakes. How many eggs are needed for 10 cakes?

Step 1 · 10 cakes is 5 lots of 2 cakes

Step 2 · Each lot needs 3 eggs

Answer:

3. Practice

Have a go at each one. There is space underneath to work it out.

1. A café sells 3 kinds of sandwich and 2 kinds of drink. How many different sandwich-and-drink meals can you choose?

2. Leo has 5 hats and 2 scarves. How many hat-and-scarf combinations can he make?

3. A ribbon is 6 cm long. Another ribbon is 4 times How long is it?

4. A pack has 7 pens. How many pens are in 9 packs?

5. There are 4 children at each table. There are 9 tables. How many children are there?

6. Use the distributive law: $7 \times 14 = 7 \times 10 + 7 \times 4 = ?$

7. Use the distributive law: $6 \times 32 = ?$

8. A spider has 8 legs. How many legs do 12 spiders have?

9. 4 stickers cost 30p. How much do 12 stickers cost?

10. A recipe uses 2 onions for every 5 people. How many onions are needed for 20 people?

11. Ice creams come in 4 flavours with 3 toppings. Each ice cream has one flavour and one topping. How many choices are there?

12. A dog weighs 6 kg. A big dog weighs 7 times How much heavier is the big dog?

13. A bag holds 3 red balls and 4 blue balls. How many balls are in 8 bags?

14. There are 24 outfits made from tops and 4 pairs of trousers. How many tops are there?

4. Before you hand it in

4 T-shirts and 3 pairs of shorts make 7 outfits.

Every T-shirt can go with every pair of shorts. Draw a table: 4 rows and 3 columns gives $4 \times 3 = 12$ boxes.

3 eggs for 2 cakes, so 10 cakes need 30 eggs.

Find how many lots: 10 cakes = 5 lots of 2 cakes, so $5 \times 3 = 15$ eggs.

$6 \times 23 = 6 \times 20 + 3 = 123$.

Both parts must be multiplied: $6 \times 20 + 6 \times 3 = 120 + 18 = 138$.

'4 times as' means add 4.

'4 times' means multiply by 4. '4 m taller' means add 4 m.