19.01.21

I can solve correspondence problems

Starter

Can you match the times tables question to the correct answer?

3 x 10 =   24

5 x 8 =   40

2 x 12 =   27

9 x 3 =   30

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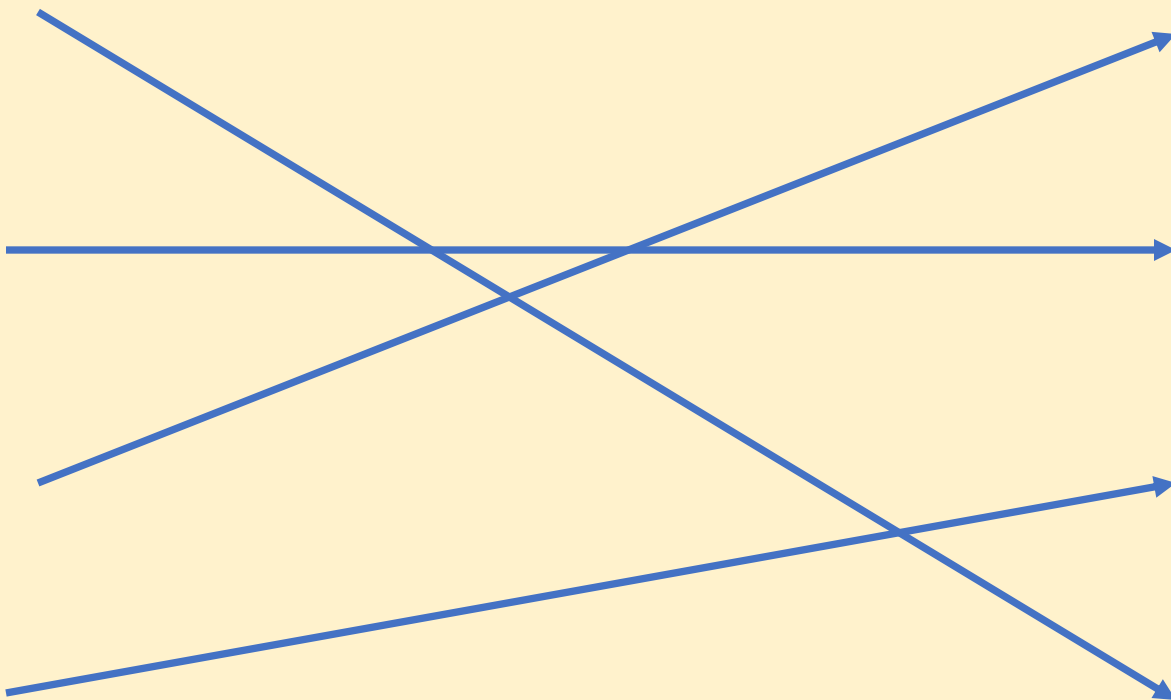
9 x 3 =   30

Correspondence Problems

We have been looking at problems where there are different **combinations**.

We are using a **structured** method to work out all possible answers.

Recap...

4 Teddy has 5 pairs of trousers.

He also has 4 shirts.

Each day he wears a shirt and a pair of trousers.

a) How many possible combinations does he have?

☐ × ☐ = ☐

b) Teddy buys 2 more pairs of trousers.

How many possible combinations does he have now?

☐ × ☐ = ☐

Recap…

4 Teddy has 5 pairs of trousers.

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$$\boxed{5} \times \boxed{4} = \boxed{20}$$

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Recap…

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a) How many possible combinations does he have?

$5 \times 4 = 20$

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How many possible combinations does he have now?

$7 \times 4 = 28$

Jack has 3 T-shirts and 4 pairs of trousers. Complete the table to show how many different outfits he can make.

T-shirt	Trousers
Blue	Blue
Blue	Dark blue
Blue	Orange
Blue	Green

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There are **3 groups** and there are **4 in each group.**

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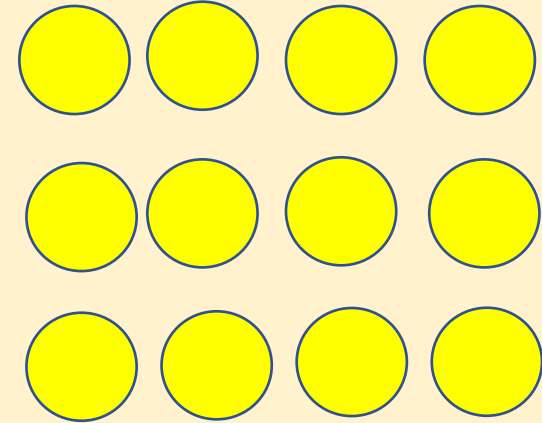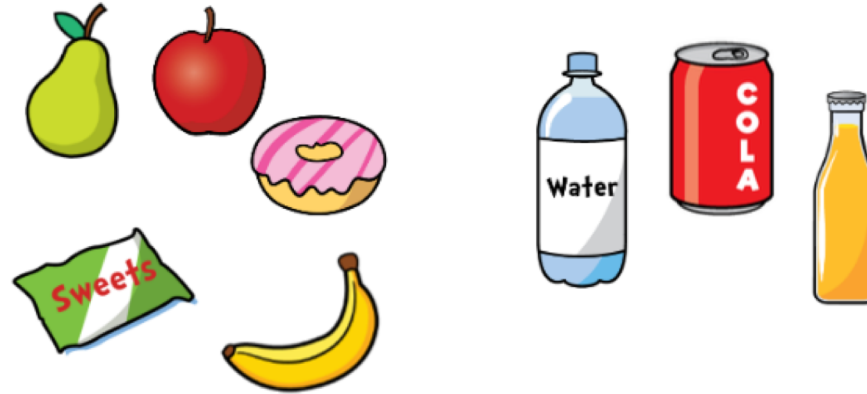Have we seen this before? Can we use a quicker method?

OR

Your turn…

Eva chooses a snack and a drink.

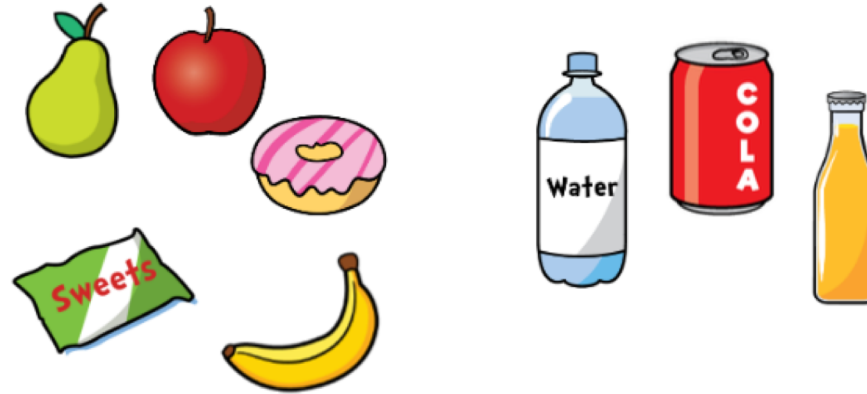What could she have chosen?
How many different possibilities are there?

_____ × _____ = _____

There are _____ possibilities.

How many of the ways contain an apple?

Your turn...

Eva chooses a snack and a drink.

What could she have chosen?
How many different possibilities are there?

__5__ × __3__ = __15__

There are __15__ possibilities.

How many of the ways contain an apple?

Your turn...

Eva chooses a snack and a drink.

What could she have chosen?
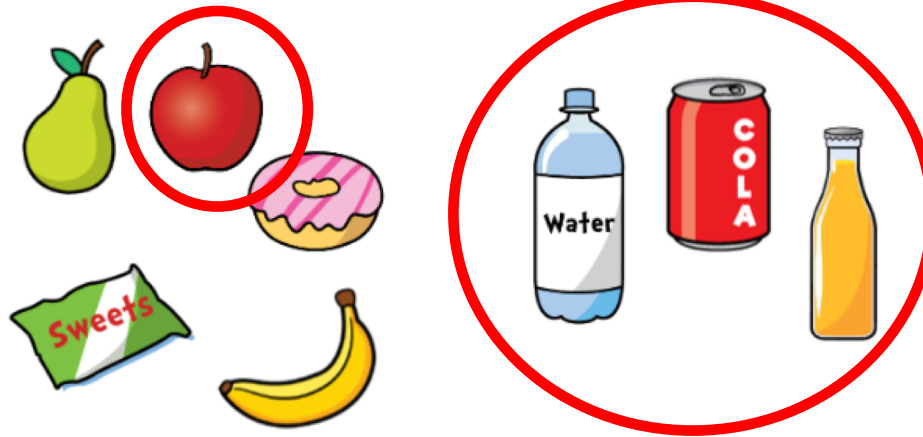How many different possibilities are there?

__5__ × __3__ = __15__

There are __15__ possibilities.

How many of the ways contain an apple?
1 apple and 3 drinks
1 x 3 = 3

*, ** and *** activities are uploaded on our online learning page. There is also a challenge activity if you would like to have a go.

*Meet Frosty the snowman.

He owns **3 scarves**- one is red, one is green and one is yellow.

He also owns **3 hats**- one is blue, one is black and one is orange.

He wants to wear a different combination of hat and scarf every day.

How many days can he do this for?

Day 1 - Red scarf + blue hat
Day 2 - Red scarf + black hat

**

Rahim has a choice of 5 T-shirts and 4 pairs of shorts for a game of football.

How many different outfits can he make?

***

Lottie is counting the number of wheels in a car park. Cars and bikes are in the car park. Cars have four wheels and bikes have two wheels. If there are 26 wheels altogether, how many cars and bikes might there be?