Correspondence problems

1 A canteen has 2 types of bread and a choice of 3 sandwich fillings.

Bread	Fillings
white brown	cheese tuna chicken

a) List the different sandwiches that can be made.

One has been done for you.

cheese on white

b) Complete the multiplication to represent the number of different combinations of bread and filling.

☐ × ☐ = ☐

Complete the sentence.

There are ☐ combinations.

c) How many combinations would there be if there were 4 choices of sandwich filling?

☐

2 A pizzeria offers a choice of bases and toppings.

Pizza base	Toppings
deep pan	mushrooms
thin	chicken
	onion
	peppers
	sweetcorn

Complete the multiplication to work out how many different combinations of pizza there are.

☐ × ☐ = ☐

Complete the sentence.

There are ☐ combinations of pizza.

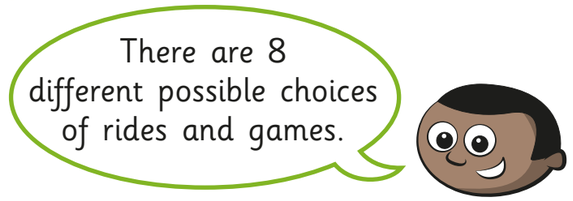
3 Mo visits the funfair.

He buys a ticket that allows him to choose 1 ride and 1 game at the fair.

Rides
Big dipper
Dodgems
Carousel

Games
Hook-a-duck
Basketball
Coconut shy
Lucky dip
Test-your-strength

a)



Is Mo correct? _____

Explain your answer.

_____

_____

b) List all the different choices Mo can make.

_____

_____

_____

_____

Mo can make ☐ different choices.

4 Aisha has 3 headbands and 5 hair slides.

Kim has 2 headbands and 6 hair slides.

Who has more choices of combinations for wearing one headband and 1 slide?

_____ has more choices.

Talk about it with a partner.

5 Here are the activity choices available at Summer Camp.

Sport	Arts and crafts	Outward bound
football	painting	wall climbing
tennis	pottery	kayaking
golf	mosaics	abseiling
	origami	

Each child is allowed to choose 3 activities per day:
1 sport, 1 arts and crafts and 1 outward bound.

a) How many activity combinations are there?

☐

b) Due to a flooded pitch, football is cancelled.

How many combinations are now possible?

There are ☐ combinations.

6 Tom and Esther are building a snowman.

They have a choice of 5 hats, 4 scarves and 2 pairs of gloves to dress their snowman.

How many different combinations are possible?

☐ × ☐ × ☐ = ☐

There are ☐ combinations.