Correspondence problems

1 A canteen has two types of bread and a choice of three sandwich fillings.

Bread	Fillings
white	cheese
brown	tuna
	chicken

a) List the different sandwiches that can be made.

One has been done for you.

cheese on white

_____

_____

_____

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

☐ × ☐ = ☐

There are ☐ combinations.

c) How many combinations would there be if there were four 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 workings to work out how many different combinations of pizza there are.

☐ × ☐ = ☐

There are ☐ combinations of pizza.

3 Mo visits the funfair.

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

Rides
Big dipper
Dodgems
Carousel

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

a)

> There are eight different possible choices of rides and games.

Is Mo correct? _____

Explain your answer.

b) List all the different choices that Mo can make.

_____

_____

_____

_____

Mo can make ☐ different choices.

4 Aisha has three headbands and five hair slides.

Kim has two headbands and six hair slides.

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

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 three activities per day: one sport, one arts and crafts and one outward bound.

a) How many activity combinations are there?

☐

b) Due to a flooded pitch, football is cancelled.
How many combinations are now possible?

☐

6 Tom and Esther are building a snowman.

They have a choice of five hats, four scarves and two pairs of gloves to dress their snowman.

How many different combinations are possible?

☐