Date	21.1.21
Subject/s	Maths
Learning Objective	To solve correspondence problems.

			SA	TA
Success Criteria ✓!▤	I can use multiplication facts to solve problems.			
	I can solve correspondence problems.			
Support	Independently Support ( ) Group work			
Pre-task:				

Solve this problem

An ice-cream van has 4 flavours of ice-cream and 2 choices of toppings.

Ice-cream flavour	Toppings
Vanilla	Sauce
Chocolate	Flake
Strawberry	
Banana	

How many different combinations of ice-cream and toppings can be made?
Complete the multiplication to represent the combinations.

___ × ___ = ___   There are ___ combinations.

1a. One box contains 3 types of teddy and 4 different balls.
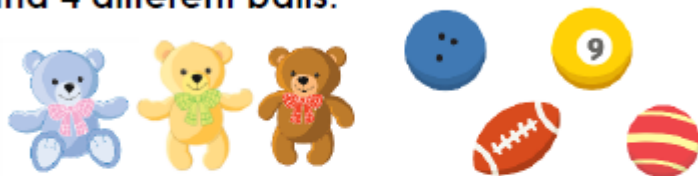
How many combinations of teddy and ball are there? Circle the correct answer.

| 12 | 15 | 20 |

1b. One box contains 4 different sizes of fish cans and 2 different flavours of soup.

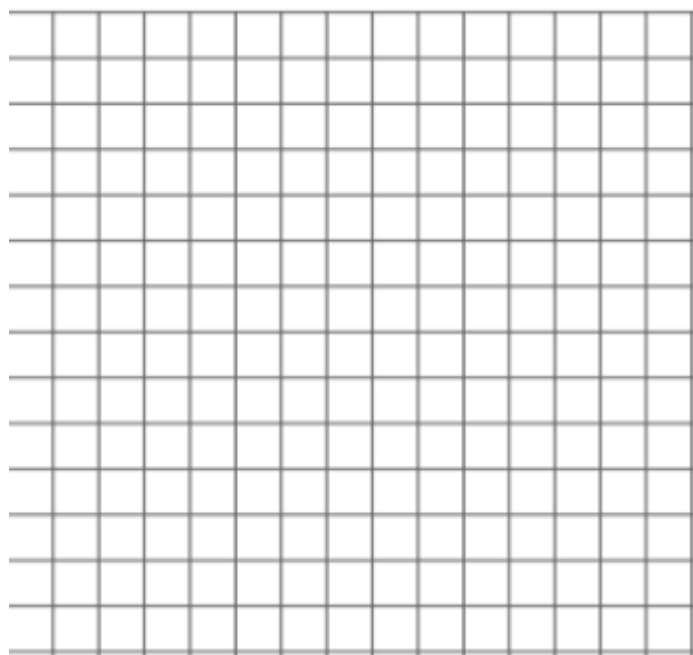How many combinations of fish and soup are there? Circle the correct answer.

| 8 | 10 | 12 |

2a. True or false? There are 10 combinations of cake flavours and toppings. Show your working.

Cake flavour	Toppings
1. vanilla 2. chocolate	1. milk chocolate chips 2. white chocolate chips 3. banana flakes 4. sprinkles 5. cherry

3a. There are two boxes of blocks.

A. 5 blocks B. 4 blocks

How many combinations of letters can be made?
Complete the calculation below to show the total number of combinations.

☐ x ☐ = ☐

3b. There are two plates of fruit.

A. B.

How many combinations of fruits can be made?
Complete the calculation below to show the total number of combinations.

☐ x ☐ = ☐

Problem solving and reasoning:

Explain it!

Here are the meal choices in the school canteen.

Starter	Main	Dessert
Soup Garlic Bread	Pasta Chicken Beef Salad	Cake Ice-cream Fruit Salad

There are 2 choices of starter, 4 choices of main and 3 choices of dessert.

How many meal combinations can you find? Can you use a systematic approach?
Can you represent the combinations in a multiplication?

If there were 20 meal combinations, how many starters, mains and desserts might there be?

Explain it!

Alex has 6 T-shirts and 4 pairs of shorts.
Dexter has 12 T-shirts and 2 pairs of shorts.
Who has the most combinations of T-shirts and shorts?
Explain your answer.

Further Challenge:

1) At holiday club, there are 2 different morning activities, 3 different afternoon activities and 3 different evening activities.

The children each choose one morning, one afternoon and one evening activity.

Morning	Afternoon	Evening
Painting	Football	Reading
Gardening	Swimming	Movie
	Bowling	Board games

a) Write a multiplication calculation to represent the combinations.

$\boxed{}$ × $\boxed{}$ × $\boxed{}$ × $\boxed{}$ = $\boxed{}$

b) If there were 12 different combinations of activities, how many morning, afternoon and evening activities could there be?