

Class 3 Home Learning, week beginning 8th June 2020

Maths - Year 4

Summer Term, Week 4 (w/c 11th May)

Lesson 1

Multiplying and dividing problems

Please watch the video before starting the questions.

I have not divided this work into challenges. Please work your way through the questions and do as many as you can.

The **answers** are included in this document.

Can I solve multiplication and division problems? (Y4)

These pages do not need to be printed out. Please write the short date you do the work and the above question in your maths book, underlining them neatly with a ruler.

- 1 A canteen has 2 types of bread and a choice of 3 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 multiplication to represent the number of different combinations of bread and filling.

$$\square \times \square = \square$$

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.

$$\square \times \square = \square$$

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 | Games |
|------------|--------------------|
| Big dipper | Hook-a-duck |
| Dodgems | Basketball |
| Carousel | Coconut shy |
| | Lucky dip |
| | Test-your-strength |



- a)

There are 8 different possible choices of rides and games.



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?

$$\square \times \square \times \square = \square$$

There are combinations.

Can I solve multiplication and division problems? (Y4)

ANSWERS

- 1 A canteen has 2 types of bread and a choice of 3 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 cheese on brown

tuna on white tuna on brown

chicken on white chicken on brown

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

$$\boxed{2} \times \boxed{3} = \boxed{6}$$

Complete the sentence.

There are $\boxed{6}$ combinations.

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

$\boxed{8}$

- 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.

$$\boxed{2} \times \boxed{5} = \boxed{10}$$

Complete the sentence.

There are $\boxed{10}$ 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 | Games |
|------------|--------------------|
| Big dipper | Hook-a-duck |
| Dodgems | Basketball |
| Carousel | Coconut shy |
| | Lucky dip |
| | Test-your-strength |

- a)

There are 8 different possible choices of rides and games.



Is Mo correct? No

Explain your answer.

He had done 3+5 not 3x5

b) List all the different choices Mo can make.

BH BB BC BL BT

DH DB DC DL DT

CH CB CC CL CT

Mo can make 15 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?

Aisha 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?

36

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

How many combinations are now possible?

There are 24 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?

$$\boxed{5} \times \boxed{4} \times \boxed{2} = \boxed{40}$$

There are 40 combinations.