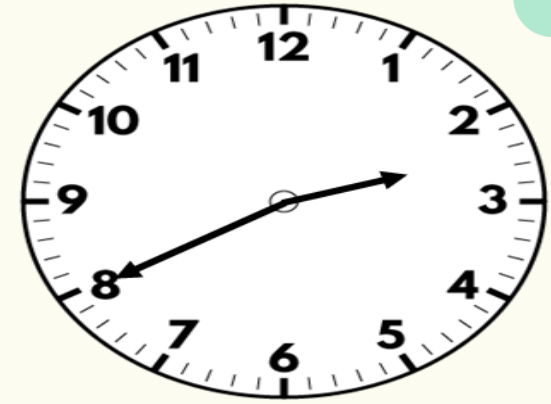




MATHS

5.2.21

Mental & Oral Starter



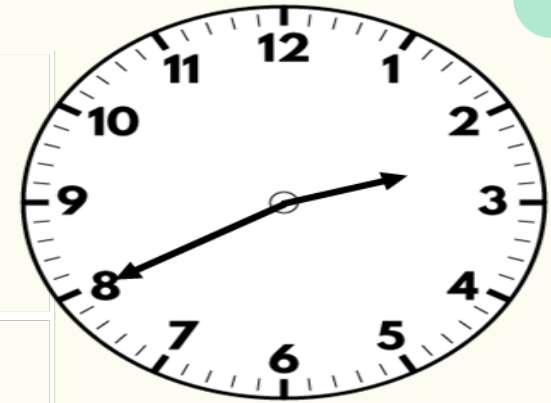
1) Work out 218×3

2) Find fifty multiplied by seven

3) What is the value of $1 \times 8 \times 7$?

4) What is 120 less than 8,000?

Mental & Oral Starter



1) Work out 218×3 **654**

2) Find fifty multiplied by seven **350**

3) What is the value of $1 \times 8 \times 7$? **56**

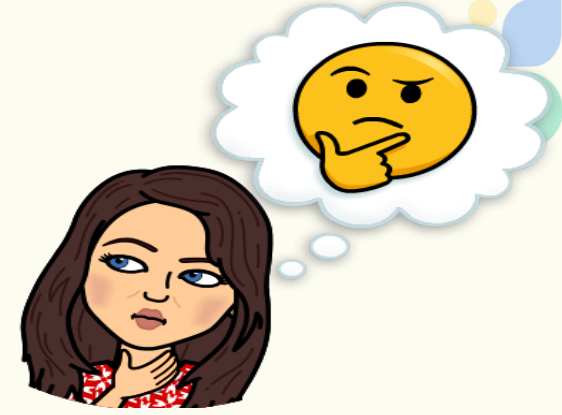
4) What is 120 less than 8,000? **7,880**



WALT: Solve correspondence problems

S2S: **I can**

- Describe a set of combinations using a multiplication calculation
- Prove my answer by finding different combinations



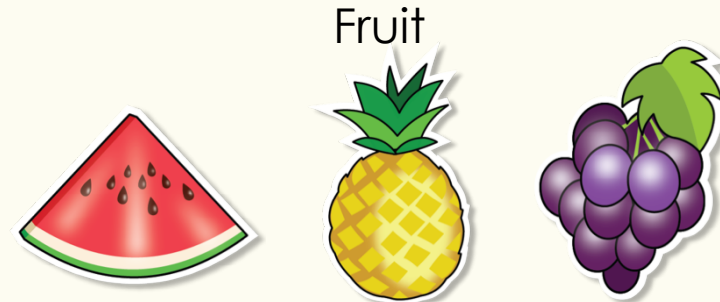
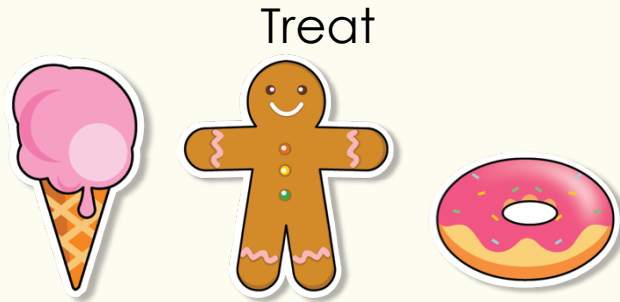
Let's Learn

To know how to solve correspondence problems

The astronaut is shopping.

He works out he can buy one treat and one piece of fruit.

Which combinations of fruit and treat could he buy?



Ice cream + watermelon

Ice cream + pineapple

Ice cream + grapes

Gingerbread man + watermelon

Gingerbread man + pineapple

Gingerbread man + grapes

Doughnut + watermelon

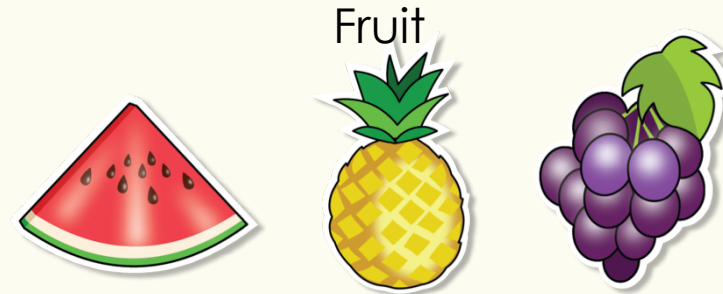
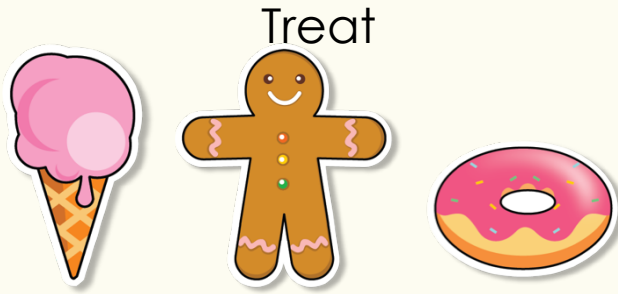
Doughnut + pineapple

Doughnut + grapes

Answers

To know how to solve correspondence problems

What do you notice about your answer to the starter and the number of treats and pieces of fruit?



Ice cream + watermelon

Ice cream + pineapple

Ice cream + grapes

Gingerbread man + watermelon

Gingerbread man + pineapple

Gingerbread man + grapes

Doughnut + watermelon

Doughnut + pineapple

Doughnut + grapes

There are 3 treats and 3 pieces of fruit.

In total there are 9 possible combinations.

$$3 \times 3 = 9$$

Answers

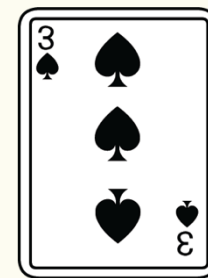
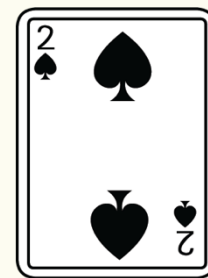
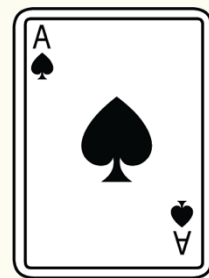
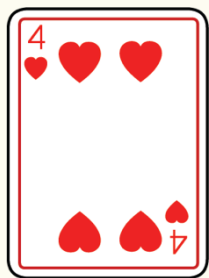
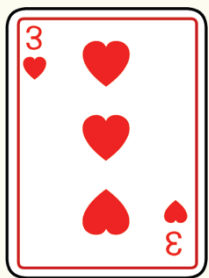
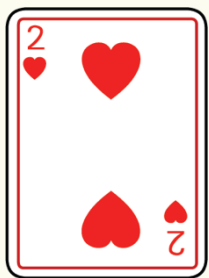
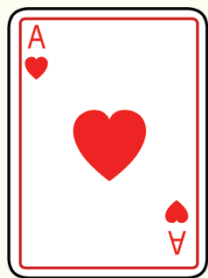


To know how to solve correspondence problems

How many combinations of red (heart) card and black (spade) card can you make?

Predict the answer then check it.

$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$



4 x 3 = 12. There are 12 combinations.

Red ace + black ace

Red 2 + black ace

Red 3 + black ace

Red 4 + black ace

Red ace + black 2

Red 2 + black 2

Red 3 + black 2

Red 4 + black 2

Red ace + black 3

Red 2 + black 3

Red 3 + black 3

Red 3 + black 3

Answers



To know how to solve correspondence problems

Year 4 have been given a treat day. They can complete one activity in the morning and one activity in the afternoon.

How many combinations of activities could they have? $5 \times 3 = 15$. There are 15 combinations.

What are the different combinations?

Morning	Afternoon
Whole class games	Watch a film
Watch a film	Craft activity
Craft activity	Outdoor games
Small group games	
Fun maths activity	

Answers



To know how to solve correspondence problems

The Year 4 teachers are organising their school trips and activities for next year.

They can only have one trip or activity each term.

How many different combinations of trip or activity could they have?

Autumn Term	Spring Term	Summer Term
Viking Day Natural History Museum	Science Museum Pop-Up Planetarium Science Day Scientist Talk	Victorian Day Local History Walk

$2 \times 4 \times 2 = 16$. There are 16 combinations.

Answers

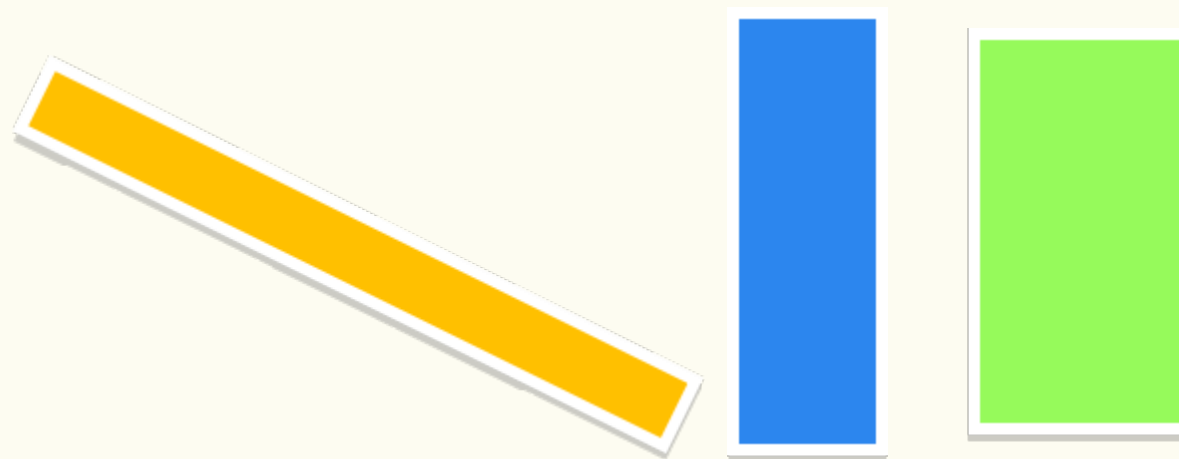
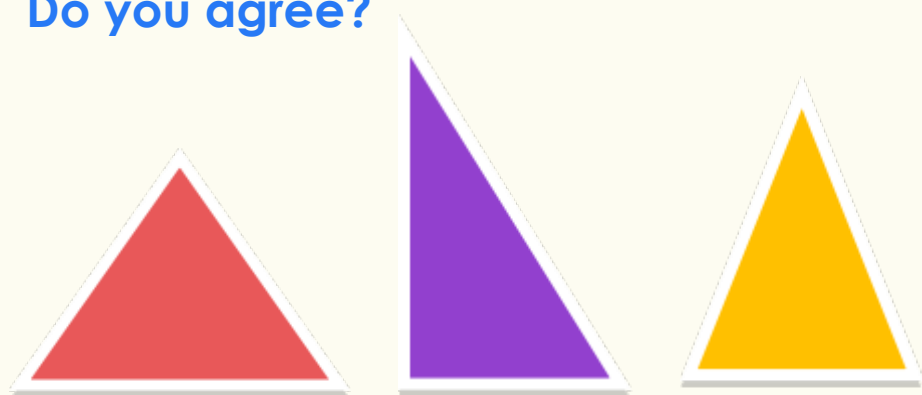


To know how to solve correspondence problems

Let's Reflect:

The astronaut says that there are 6 different combination of shapes because $3 + 3 = 6$.

Do you agree?



The astronaut is wrong.

There are 9 different combinations. $3 \times 3 = 9$.

Answers



Independent Practice:

Complete the worksheet to show that you can use multiplication to find different combinations. Don't forget to prove your answer!

Y4 Maths Fri 5th Feb 2021 – Worksheet

1. How many different combination of ball and toy can I make?

Complete the multiplication question to find the different combinations then prove your answer is correct.

___ x ___ = ___

There are ___ combinations.



2. Gus is planning out his weekend. He can do one main activity each day. How many combinations of activity could he have? What are the different combinations?

Saturday	Sunday
Play football Play games Watch TV Go to the cinema	Go to the park Play family games Watch a film Go for a walk

3. The astronauts are going out for dinner. They can have one starter, one main and one pudding. Which combinations of food could they have?

Starter	Main	Pudding
Dough Balls Garlic Pizza Bread	Pizza Salad Pasta Chicken	Cake Fruit Ice-Cream