Year 2/3 Maths

Steppingstone activity

Lesson 5 – 03.07.2020

LO: To interpret data using tables

Success Criteria:

1.	**Revisit:** Play hit the button to practice your 2, 5 and 10 times tables (or all three!) https://www.topmarks.co.uk/maths-games/hit-the-button
2.	**Revisit:** Play the game allowing you to present and interpret data in the form of tally charts, pictograms and bar charts http://flash.topmarks.co.uk/4771
3.	Use the table to answer the questions

1. https://www.topmarks.co.uk/maths-games/hit-the-button

2. http://flash.topmarks.co.uk/4771

3. The table shows which sports children play.

	Whitney	Jack	Eva	Mo	Teddy	Annie
Football	✓		✓	✓		✓
Rugby			✓		✓	
Tennis	✓	✓		✓		✓
Cricket			✓		✓	
Basketball		✓	✓	✓		✓

How many children play tennis?

Which sports does Mo play?

Which children play football and tennis?

Which child plays the most sport?

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Task:

You are going to be **interpreting data using tables**

Success Criteria:

1.	**Revisit:** Play the game allowing you to present and interpret data in the form of tally charts, pictograms and bar charts http://flash.topmarks.co.uk/4771
2.	Talk through the mathematical questions with someone in your household
3.	**Tasks 1 and 2:** Use the tables to answer the questions – **show your working out!**

Model:

Click on each child to find out their favourite hobby. Then type in the total for each hobby and click Done.

What is your favourite hobby?

Hobby	Tally	Total
Football		
Dancing		
Reading		
Painting		

1. http://flash.topmarks.co.uk/4771

2. Mathematical talk
What information can we gather from the table?
Can you explain to a family member or friend how to read the table?
Where do we need to use tables in real life?
What other questions could I ask and answer using the information in the table?

3. The table shows the results of a breakfast survey.

	toast	cereal	porridge	fruit	nothing
Boys	3	13	6	4	6
Girls	2	14	8	6	2
Men	12	5	7	3	10
Women	3	9	17	11	0

a. How many males eat toast?
   3 + 12 = 15
b. Which was the second least popular breakfast amongst females?
   Toast = 5 (2 + 3)
c. How many people have nothing for breakfast?
   6 + 2 + 10 = 18
d. What was the most popular breakfast for both boys and girls?
   Cereal – boys = 13, girls = 14

Task 1	Task 2

Practice

1. The table below shows the number of cars using a car park.

Mon	Tues	Wed	Thu	Fri
15	11	9	12	6

a. Which day were most cars in the car park?
b. Which days were there less than ten cars parked?
c. Which day were there the least free spaces in the car park?
d. How may cars in total used the car park on Tuesday and Friday?

2. The table below shows favourite activities.

cinema	ice skating	swimming	theme park
15	9	12	8

a. Which activity is the most popular?
b. How many went swimming?
c. Which was most popular - ice skating or the theme park?
d. Which activity is the least popular?

3. The table shows the combinations of colours and objects.

	green	blue	red
pencil	✓		✓
ruler		✓	✓

a. What colour pencil can you not buy?
b. What colour ruler can you not buy?
c. In which colour can you buy both products?

Practice

1. The table below shows visitors to shops over a weekend.

	Gift Shop	Pet Shop	Supermarket
Saturday	7	9	12
Sunday	15	7	14

a. Which shop had the most visitors on Saturday?
b. Which shop had the quietest day on Sunday?
c. Which shop had the least customers across both days?
d. How many customers did all three shops have on Sunday?

2. The table shows the results of a traffic survey.

	🚗	🚌	🚚	🚲	🏍
Main road	17	4	6	3	2
Side street	7	1	0	4	9
High Street	4	10	2	1	2

a. How many cars were there altogether?
b. Which was the least common mode of transport on the main road?
c. How many more lorries than buses were there on the main road?
d. What vehicle was not seen on the side street?

Task 3

Reasoning - Explain your answers.

3a. Felicity creates some questions using the table below.

How many prefer the seaside?

How many people didn't vote?

Do more people prefer the countryside or the mountains?

Beach Holiday	Countryside	Mountain walks	Sailing
18	12	6	5

Which of Felicity's questions cannot be answered using the table? Explain why not.

9a. Billy creates some questions using the table below.

How many people use aeroplanes to go on holiday?

Why do you think more people in the South travel by ferry?

How many people use more than one mode of transport?

	Aeroplane	Ferry	Car	Train
North of England	19	12	28	30
Southern England	20	45	52	54

Which of Billy's questions cannot be answered using the table? Explain why not.

Task 4

Problem solving

2a. Afifa writes the following statements using the information in the table, spot two mistakes she has made.

Twenty children answered the survey.
Less than half of the children have no pets.
Girls have more pets than boys.
There are no even numbers in the boys' results.

	No pets	1 pet	2 pets
Boys	3	7	3
Girls	2	8	1

8a. Shelley writes the following statements using the information in the table, spot three mistakes she has made.

Both teams have more home games. 43 games were played in total. Foxley Wanderers played away twice as many times as Riverpool FC. The total home games of both teams together is double the total away games.

	Home Games	Away Games	Total games
Riverpool FC	14	4	19
Foxley Wanderes	10	12	24

Challenge

2. Sanjay has created the table below to show people's favourite smoothie flavours but he can't remember the order of the flavours.

								Total
5 – 12 year olds	13	2	10	9		16	15	
13 – 17 year olds		7	29	0	16	4	3	61
Adults	20	13	5		2	15	0	

Choose seven flavours from above and place them in columns of your choice. Then, create 3 questions for your partner to solve. An example of a question is shown below.

Overall, how much more popular was the apple smoothie than the peach and carrot smoothies combined?