Data handling: Bar Graphs

Question 1:

Shoes boys prefer to wear
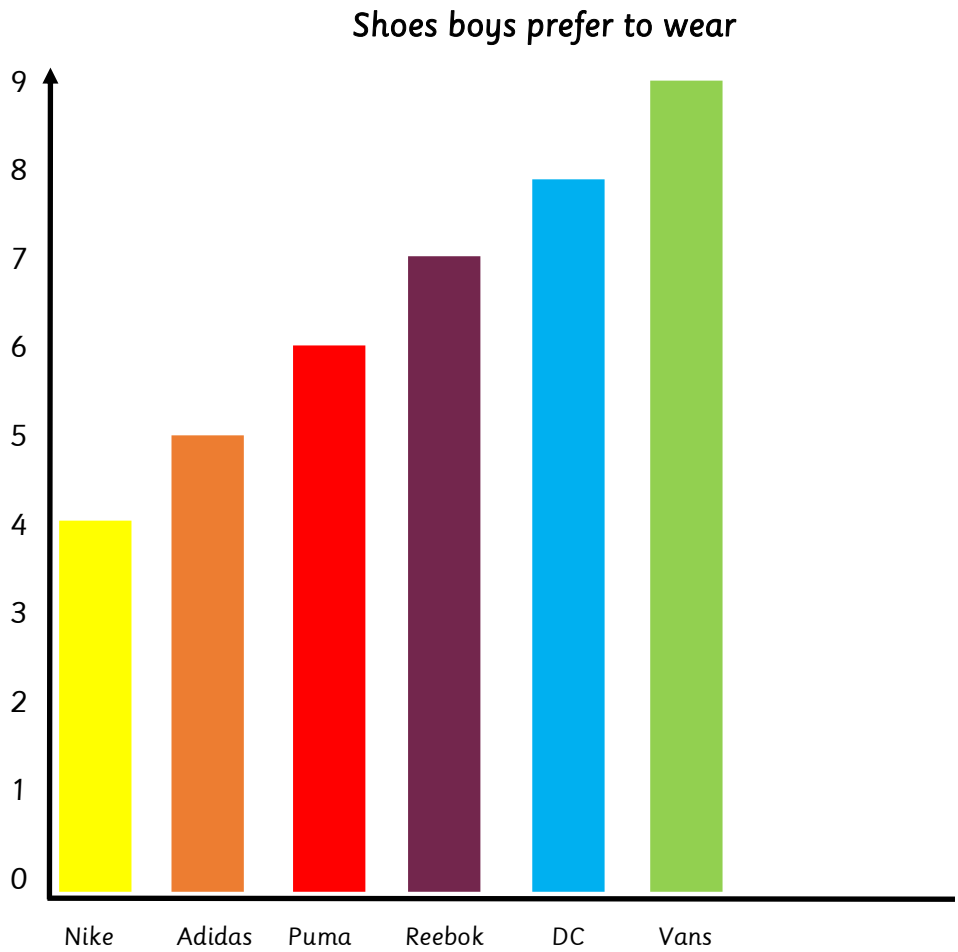

The graph above shows the shoes boys prefer to wear. Use the graph to answer the following question.

1. Which brand of shoes do boys prefer to wear most? _____
   _____

2. Which brand of shoes do boys prefer to wear least? _____
   _____

3. How many boys prefer to wear Puma shoes? _____
   _____

4. How many boys prefer to wear DC shoes to Adidas shoes? _____
   _____

5. What is the sum of the number of boys who prefer to wear Nike shoes and Vans? _
   _____
   _____

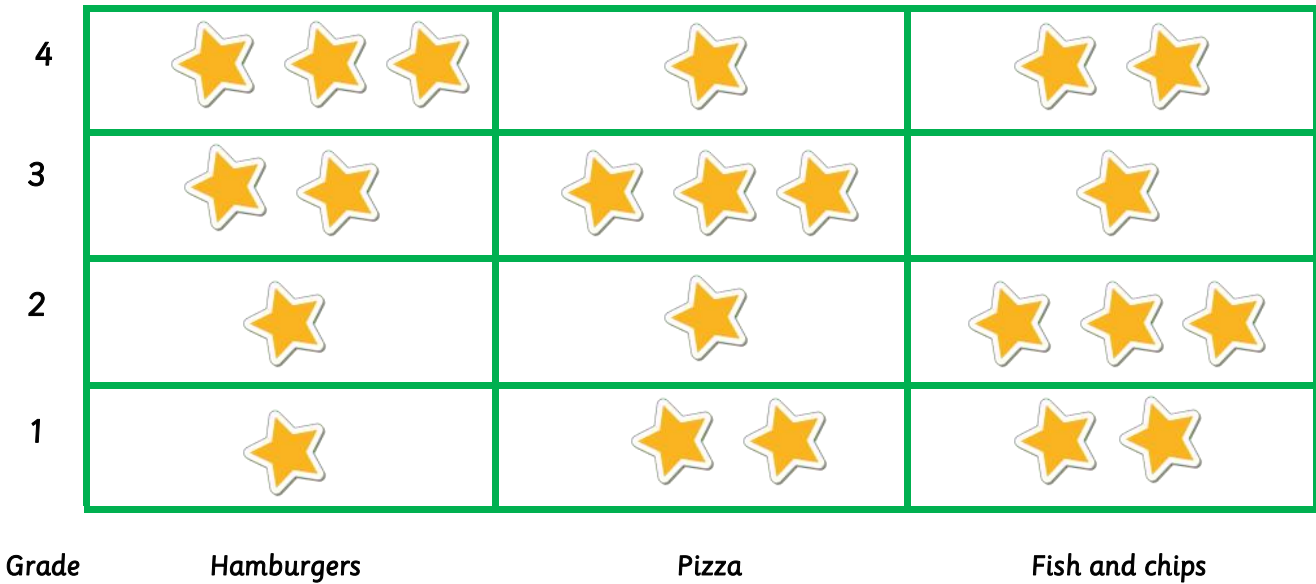6. How many boys were included in the study? Use the space for calculations.

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Pictogram application

Question 2:

Grade 3 learners' favourite weekend food

Grade	Hamburgers	Pizza	Fish and chips
4	⭐⭐⭐	⭐	⭐⭐
3	⭐⭐	⭐⭐⭐	⭐
2	⭐	⭐	⭐⭐⭐
1	⭐	⭐⭐	⭐⭐

Key ⭐ = 10 learners

Look at the pictogram above and answer the questions which follow.

1. How many Grade 1 learners enjoy pizza as their favourite weekend food? _____
   _____

2. How many Grade 4 learners enjoy hamburgers as their favourite weekend food? _
   _____

3. There are 30 Grade 2 learners that enjoy _____ as their favourite
   weekend food.

4. How many learners altogether enjoy hamburgers as their favourite weekend food ?
   _____
   _____

5. What food do the Grade 3 learners enjoy most as their weekend food? _____
   _____

6. Grade 4 learners enjoy _____ the least as their weekend food.

7. How many Grade 3 learners took part in the study? _____
   _____

8. How many learners altogether enjoy pizza the most as their weekend food? _____
   _____
   _____

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Using a ruler

Question 3:

Use your ruler to measure the length of the following lines. Circle the correct length.

1) ━━━━━━━━━━

A)   5 cm   B) 5 mm   C)   7 cm   D) 75mm

2) ━━━━━━━

A)   35 cm   B) 35 m   C)   3.5 cm   D)   350mm

3) ━━━━━━━━━━━

A)   80 m   B) 8 mm   C)   8 cm   D) 88mm

4) ━━━━

A)   1,5 cm   B)   15 cm   C)   25 mm   D) 2,5 cm

Use a SHARP pencil and a ruler to draw the following lines. Place the 0 (zero) of your ruler on the dot to draw a lines that measures:

1)   6 cm

   ●

2)   1 cm

   ●

3)   4,5 cm

   ●

4)   12 cm

   ●

5)   7,5 cm

   ●

6)   2,5 cm

   ●

Put your thinking cap on!

1 cm = _____ mm, 8 cm = _____ mm, 14 cm = _____ mm

1 m = _____ cm, 7m = _____ cm, 13 m = _____ cm

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Problem solving

Question 4:

Convert the following lengths according to the instructions in the table.

	mm	cm	m
33 cm			
365 mm			
16 m			
25 cm			
456 mm			
777 cm			

Estimate the length of:

1) Your thumb

2) Your eraser

3) Your ear from top to bottom

4) Your shoe

Question 5:

1) I have two pieces of string. The first piece measures 5,5 cm , and the second piece measures 7,3 cm. If I put the two pieces of string next to each other, what would the total length be?

2) The width of my waist was 66 cm, now it is 78 cm. How much wider is my waist now?

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Problem solving

3)   I want to build a train using 4 match boxes and 4 pieces of string. Each match box measures 5 cm and the pieces of string measure 3,5 cm each. What would the length of my train be? [Tip: draw a picture of the train]

4)   My brother copies my idea. Instead, he uses 8 paper clips of 2 cm each and 3 boxes of 6 cm each. Calculate whose train will be the longest.

5)   After work, my dad drives 3,5 km to the shops, 6 km to the gym and 2,4 km to our house. How far does dad travel?

6)   Convert your answer of Question 5) to metres.

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Question 1:

1.   Which brand of shoes do boys prefer to wear most? Vans.

2.   Which brand of shoes do boys prefer to wear least? Nike

3.   How many boys prefer to wear Puma shoes? 6 Boys.

4.   How many boys prefer to wear DC shoes to Adidas shoes? 8 boys - 5 boys = 3 boys.

5.   What is the sum of the number of boys who prefer to wear Nike shoes and Vans? 4 + 9 = 13.

6.   How many boys were included in the study? Use the space for calculations. 4 + 5 + 6 + 7 + 8 + 9 = 39

Question 2:

1.   How many Grade 1 learners enjoy pizza as their favourite weekend food? 20 learners.
2.   How many Grade 4 learners enjoy hamburgers as their favourite weekend food? 30 learners.
3.   There are 30 Grade 2 learners that enjoy fish and chips as their favourite weekend food.
4.   How many learners enjoy hamburgers as their favourite weekend food altogether? 70 learners.
5.   What food do the Grade 3 learners enjoy most as their weekend food? Pizza.
6.   Grade 4 learners enjoy Pizza the least as their weekend food.
7.   How many Grade 3 learners took part in the study? 60 learners.
8.   How many learners altogether enjoy pizza the most as their weekend food? 70 learners.

Question 3:

1)   A   2)   C   3)   C   4)   A

Measure the lines that were drawn to ensure that they are the correct length.

1 cm = 10 mm, 8 cm = 80 mm, 14 cm =   140 mm

1 m = 100 cm, 7m = 700   cm, 13 m = 1300 cm

Question 4:

	mm	cm	m
33 cm	330		0,33
365 mm		36,5	0,365
16 m	16 000	1 600	
25 cm	250		0,25
456 mm		45,6	0,456
777 cm	7770		7,77

1)   Your thumb ~ 3 / 4 cm

2)   Your eraser ~ 3 / 4 / 5 cm

3)   Your ear from top to bottom ~ 3 / 4 / 5 cm

4)   Your shoe ~ 10 - 20 cm

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1) I have two pieces of string. The first piece measures 5,5 cm , and the second piece measures 7,3 cm. If I put the two pieces of string next to each other, what would the total length be?

5,5 + 7, 3 = ☐

5,5 + 7,3 = 12,8 cm

The two pieces of string would be 12,8 cm when put together.

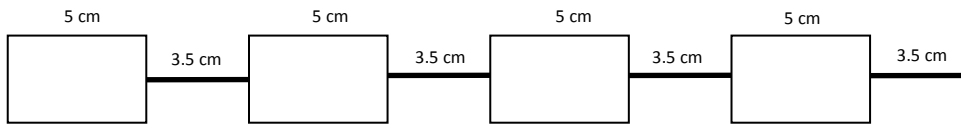2) The width of my waist was 66 cm, now it is 78 cm. How much wider is my waist now?

78 - 66 = ☐

78 - 66 = 12 cm

My waist is now 12 cm wider.

3) I want to build a train from 4 match boxes and 4 pieces of string. Each match box measures 5 cm and the pieces of string measure 3.5 cm each. What would the length of my train be? [Tip: draw a picture of the train]

(5 + 5 + 5 + 5) + (3.5 + 3,5 + 3,5 + 3,5) = ☐

20 + 14 = 34 cm

The train would measure 34 cm in length.

4) My brother copies my idea. Instead, he uses 8 paper clips of 2 cm each and 3 boxes of 6 cm each. Calculate whose train will be the longest.

(2 + 2 + 2 + 2 + 2 + 2 + 2 + 2) + (6 + 6 + 6) = ☐

16 + 18 = 34 cm

Our trains are the same length.

5) After work, my dad drives 3,5 km to the shops, 6 km to the gym and 2,4 km to our house. How far does dad travel?

3,5 + 6 + 2,4 = ☐

3,5 + 6 + 2,4 = 11,9 km

My dad travels 11,9 km.

6) Convert your answer of Question 5) to metres.

11,9km = 11 900 m

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