Test answers - Bar charts, pictograms and tables

Year: Year 3 · Duration: 30 minutes · /20

Answer to Question 1 (4 marks)

a. Football has 4 symbols and each symbol stands for 6 children: 4 × 6 = **24** children. (1 mark)
b. Netball has 3 symbols: 3 × 6 = **18** children. (1 mark)
c. Hockey has 2 symbols: 2 × 6 = 12 children. Football has 24, so 24 − 12 = **12** more. Quicker: football has 2 more symbols, and 2 × 6 = 12. (2 marks: 1 for hockey = 12, 1 for 12 more)

Answer to Question 2 (4 marks)

a. Read the 9 am row of the table: **35** cars. (1 mark)
b. The smallest number in the Cars column is 18, so the fewest cars passed at **11 am**. (1 mark)
c. Add all three hours: 35 + 28 = 63, then 63 + 18 = **81** cars. (2 marks: 1 for adding all three rows, 1 for 81)

Answer to Question 3 (4 marks)

a. Read the top of Mia's bar against the scale: Mia read **20** books. (1 mark)
b. The shortest bar is Tom's, which shows 5, so **Tom** read the fewest books. (1 mark)
c. Mia read 20 and Eli read 15: 20 − 15 = **5** more books. (1 mark)
d. Read every bar: Mia 20, Eli 15, Tom 5, Zoe 10. Add them: 20 + 15 + 5 + 10 = **50** books. (1 mark)

Answer to Question 4 (4 marks)

a. **Steps of 4.** 24, 16, 8 and 12 are all in the 4 times table, so every bar ends exactly on a line, and the scale only needs 6 steps to reach 24. Steps of 1 would make a very tall chart, and steps of 20 would make the bars too hard to read. (2 marks: 1 for steps of 4, 1 for the reason)
b. 12 is two groups of 5 and 2 more, so draw two gates and two single marks: |||| |||| ||, with a line across each gate. (1 mark)
c. Add the four clubs: 24 + 16 = 40, then 8 + 12 = 20, and 40 + 20 = **60** children. (1 mark)

Answer to Question 5 (4 marks)

a. Add the children we know about: 22 + 14 + 6 = 42. The rest come by bus: 50 − 42 = **8** children. (2 marks: 1 for 42, 1 for 8)
b. 22 walk and 6 cycle: 22 − 6 = **16** more children walk than cycle. (1 mark)
c. Each symbol stands for 2 children, so divide by 2: 22 ÷ 2 = **11** symbols for walking. (1 mark)