Test answers - Missing number problems

Year: Year 1 · Duration: 20 minutes · /20

Answer to Question 1 (4 marks)

a. Count on from 4 to 9: 5, 6, 7, 8, 9. That is 5 steps, so the missing number is **5**. Check: 4 + 5 = 9. (1 mark)
b. Take 7 away from the total: 12 − 7 = **5**. Check: 5 + 7 = 12. (1 mark)
c. 10 take away the missing number leaves 3, so the missing number is 10 − 3 = **7**. Check: 10 − 7 = 3. (1 mark)
d. The missing number is the whole: 8 is left after taking 5, so add them back: 8 + 5 = **13**. Check: 13 − 5 = 8. (1 mark)

Answer to Question 2 (4 marks)

a. 8 is the whole and 3 is a part. 8 − 3 = **5**, so 8 = 3 + 5. (1 mark)
b. 11 is the whole and 6 is a part. 11 − 6 = **5**, so 11 = 5 + 6. (1 mark)
c. The same number twice makes 14, so it is a double. Double 7 is 14, so both boxes are **7**. (1 mark)
d. Work out the left side: 5 + 4 = 9. The right side must also be 9, and 9 − 3 = **6**. So 5 + 4 = 3 + 6. (1 mark)

Answer to Question 3 (4 marks)

a. The long bar at the top shows the whole, which is **16**. (1 mark)
b. The part with a number in it under the bar is **9**. (1 mark)
c. The known part plus the missing part makes the whole: **9 + ? = 16**. (1 mark; 16 − 9 = ? also gets the mark)
d. Count on from 9 to 16: 1 step to 10, then 6 more to 16, that is 7. So the missing part is **7**. Check: 9 + 7 = 16. (1 mark)

Answer to Question 4 (4 marks)

a. Sam starts with an unknown number, gets 6 more and has 15: **? + 6 = 15**. (1 mark)
b. Take the 6 new cars away from 15: 15 − 6 = **9** cars at the start. (1 mark)
c. Add the 6 cars back to the 9: 9 + 6 = **15**, which matches the story, so the answer is right. (1 mark)
d. Sam gives 4 away from his 15 cars: 15 − 4 = **11** cars now. (1 mark)

Answer to Question 5 (4 marks)

a. 18 sweets, some eaten, 11 left: **18 − ? = 11**. (1 mark)
b. Count on from 11 to 18: 12, 13, 14, 15, 16, 17, 18. That is 7 steps, so **7** sweets were eaten. (1 mark)
c. Ben puts 5 in: 11 + 5 = **16** sweets in the jar. (1 mark)
d. 16 is less than 18, so there are **fewer** sweets than at the start. 18 − 16 = **2**, so there are 2 fewer. (1 mark)