Test answers - Addition and subtraction within 20

Year: Year 1 · Duration: 25 minutes · /20

Answer to Question 1 (4 marks)

a. Start at 5 and count on 4: 6, 7, 8, 9. So 5 + 4 = **9**. (1 mark)
b. Use a near double: 7 + 7 = 14, and 8 is one more than 7, so 8 + 7 = **15**. (1 mark)
c. Count on from 6 to 10: 7, 8, 9, 10. That is 4 steps, so the missing number is **4**. (1 mark)
d. This is a double: 9 + 9 = **18**. (1 mark)

Answer to Question 2 (4 marks)

a. Count back 4 from 9: 8, 7, 6, 5. So 9 − 4 = **5**. (1 mark)
b. Take 5 to reach 10, then take 1 more: 15 − 6 = **9**. (1 mark)
c. Taking 10 from 20 leaves 10. We take 8, which is 2 less than 10, so 2 more is left: 20 − 8 = **12**. (1 mark)
d. Use the bond 3 + 7 = 10, so 10 − 7 = **3**. (1 mark)

Answer to Question 3 (4 marks)

a. Adding works in any order, so swapping the numbers gives 6 + 7 = **13**. (1 mark)
b. Take 7 away from the whole, 13, and the other part is left: 13 − 7 = **6**. (1 mark)
c. Take the other part away from 13: 13 − 6 = **7**. (1 mark)
d. **No.** For subtraction the order matters: we start with the whole, 13, and take a part away. We cannot take 13 away from 6 because 6 is the smaller number. (1 mark: no and the idea that 13 cannot come out of 6)

Answer to Question 4 (4 marks)

a. Count the jumps on the number line, starting after 9: there are **5** steps forward. (1 mark)
b. Starting at 9 and going 5 forward shows the sum 9 + 5 = **14**. (1 mark)
c. The last jump stops on **14**, which is the answer to the sum. (1 mark)
d. Put your finger on 14 and jump back 5 times: 13, 12, 11, 10, 9. So 14 − 5 = **9**. (1 mark for a correct line and 9)

Answer to Question 5 (4 marks)

a. Amir takes sweets out, so subtract: 16 − 7. Take 6 to reach 10, then 1 more: **9** sweets. (1 mark)
b. His sister adds 5, so add: 9 + 5. Make 10 with 1, then add 4: **14** sweets. (1 mark)
c. The two number sentences are **16 − 7 = 9** and **9 + 5 = 14**. (1 mark for both sentences)
d. **Fewer.** The jar ends with 14 and started with 16. 14 is less than 16, and 16 − 14 = 2, so there are 2 fewer sweets than at the start. (1 mark)