Test answers - Multiplication and division problems

Year: Year 2 · Duration: 30 minutes · /20

Answer to Question 1 (4 marks)

a. Count in 5s seven times: 5, 10, 15, 20, 25, 30, 35. So 7 × 5 = **35**. (1 mark)
b. Multiplying by 2 is doubling: double 9 is 18, so 9 × 2 = **18**. (1 mark)
c. Ask how many 10s make 60: 10, 20, 30, 40, 50, 60 is six 10s. So 60 ÷ 10 = **6**. (1 mark)
d. Use the fact from part a: 7 × 5 = 35, so 35 shared into 5s gives **7**. 35 ÷ 5 = 7. (1 mark)

Answer to Question 2 (4 marks)

a. The whole bar is 30 and it is split into 5 equal parts. 6 + 6 + 6 + 6 + 6 = 30, so each part is **6**. (1 mark)
b. The bar model shows the whole divided into 5 equal parts: **30 ÷ 5 = 6**. The fact 5 × 6 = 30 also matches. (1 mark)
c. Any story with 30 things shared fairly into 5 groups of 6 is correct. For example: **30 sweets are shared equally between 5 children, so each child gets 6 sweets**. (2 marks: 1 for equal sharing of 30 into 5, 1 for the answer 6)

Answer to Question 3 (4 marks)

a. Each pot holds 10 pencils and there are 4 pots: 4 × 10 = **40** pencils. (1 mark)
b. A child takes 7 of the 40: 40 − 7 = **33** pencils left. (1 mark)
c. Share 33 between 3 tables: 3 tens shared by 3 is 1 ten each, and 3 ones shared by 3 is 1 each. So each table gets **11** pencils. Check: 11 × 3 = 33. (2 marks: 1 for dividing by 3, 1 for 11)

Answer to Question 4 (4 marks)

a. Which number times 5 makes 45? Count in 5s to 45: that is 9 jumps. So **9** × 5 = 45. (1 mark)
b. 2 times which number is 16? Half of 16 is 8, so 2 × **8** = 16. (1 mark)
c. A number halved gives 9, so the number is double 9: 9 × 2 = **18**. Check: 18 ÷ 2 = 9. (1 mark)
d. 50 shared into equal groups gives 10 in each. 5 × 10 = 50, so the missing number is **5**: 50 ÷ 5 = 10. (1 mark)

Answer to Question 5 (4 marks)

a. 5 children each sell 6 tickets. Count in 5s six times (or in 6s five times): 5 × 6 = **30** tickets. (1 mark)
b. One prize for every 10 tickets: count the 10s in 30, which is 10, 20, 30. So 30 ÷ 10 = **3** prizes. (1 mark)
c. Each prize costs 2 pounds and there are 3 prizes: 3 × 2 = **6 pounds**. (1 mark)
d. The fair makes 3 pounds on each of the 3 prizes: 3 × 3 = **9 pounds**. (1 mark)