WONDERLEARNERZ PRIMARY ACADEMY â€" OFFICIAL ANSWER KEY & MARKING SCHEME

Multiplication - Worksheet 2 [ANSWER KEY]

Grade 4 | Mathematics | Ch 13: Multiplication | Total Marks: 19 | Time: 30 Minutes

Q1. Calculate: 8 x 4 = [1 Mark]

Correct Answer: 32

Explanation: 8 x 4 = 32.

Q2. Which addition sentence is EQUIVALENT to 4 x 7? [1 Mark]

Correct Answer: 7 + 7 + 7 + 7

Explanation: 4 x 7 means 4 groups of 7 added together: 7 + 7 + 7 + 7 = 28.

Q3. What is the product of 15 x 0? [1 Mark]

Correct Answer: 0

Explanation: Any number multiplied by 0 equals 0.

Q4. Calculate: 24 x 10 = [1 Mark]

Correct Answer: 240

Explanation: Multiplying by 10 shifts digits one place left: 24 x 10 = 240.

Q5. At the Robotics Circuit Board Sockets, an organizer arranges items into 8 rows with 4 items in each row. How many items are there in total? [1 Mark]

Correct Answer: 32 items

Explanation: 8 rows x 4 items = 32 items.

Q6. A box holds 8 packs of crayons, and each pack contains 12 crayons. How many crayons are in the box? [1 Mark]

Correct Answer: 96 crayons

Explanation: 8 x 12 = 96 crayons.

Q7. A bicycle shop rents out 6 bicycles every hour. How many bicycles does it rent out in 8 hours? [1 Mark]

Correct Answer: 48 bicycles

Explanation: 6 x 8 = 48 bicycles.

Q8. Find the missing factor: [?] x 4 = 32 [1 Mark]

Correct Answer: 8

Explanation: 32 / 4 = 8.

Q9. Complete the distributive breakdown: 7 x 12 = (7 x 10) + (7 x [?]) [1 Mark]

Correct Answer: 2

Explanation: 12 = 10 + 2, so 7 x 12 = (7 x 10) + (7 x 2).

Q10. A student says: '5 x 6 = 30, so 6 x 5 must be a different number because the order changed.' What is the student's misconception? [1 Mark]

Correct Answer: Multiplication is commutative (a x b = b x a); rotating an array shows 5 x 6 and 6 x 5 both equal 30

Explanation: The commutative property of multiplication guarantees that factor order does not change the product.

Q11. Dev solves 4 x 8 by doing 4 + 4 + 4 + 4 = 16. What was Dev's mistake? [1 Mark]

Correct Answer: Dev added 4 four times instead of eight times (4 x 8 = 32), or he should have added 8 four times (8 + 8 + 8 + 8 = 32)

Explanation: 4 x 8 means four groups of 8 (8 + 8 + 8 + 8 = 32) or eight groups of 4 (32).

Q12. Why can you calculate 6 x 8 by taking 3 x 8 and simply doubling the answer? [2 Marks]

Correct Answer: Because 6 is double 3 (6 = 2 x 3), so 6 x 8 is double (3 x 8 = 24), which is 48

Explanation: Doubling one factor doubles the resulting product: 6 x 8 = (2 x 3) x 8 = 2 x

(3 x 8) = 2 x 24 = 48.

Q13. If you know that 10 x 7 = 70, how can you easily find 9 x 7 using mental math? **[2 Marks]**

Correct Answer: Subtract 7 from 70: 70 - 7 = 63 (9 groups of 7 is 1 group less than 10 groups of 7)

Explanation: 9 x 7 is one group of 7 less than 10 x 7 (70 - 7 = 63).

Q14. A farmer packs eggs into cartons of 12. If he fills 7 full cartons and has 5 eggs **[2 Marks]**
left over, how many eggs does he have in total?

Correct Answer: 89 eggs

Explanation: (7 x 12) + 5 = 84 + 5 = 89 eggs.

Q15. In a competition, 4 teams each have 6 players. Each player is given 3 bottles of **[2 Marks]**
water. How many bottles of water are handed out in total?

Correct Answer: 72 bottles

Explanation: Total players = 4 x 6 = 24 players. Total water = 24 x 3 = 72 bottles.