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

Division and Equal Sharing - Worksheet 3 [ANSWER KEY]

Grade 3 | Mathematics | Ch 14: Division and Equal Sharing | Total Marks: 19 | Time: 30 Minutes

Q1. Calculate: 42 / 6 = [1 Mark]

Correct Answer: 7

Explanation: 42 divided by 6 equals 7 because 7 x 6 = 42.

Q2. Find the quotient and remainder: 45 / 6 = [1 Mark]

Correct Answer: 7 R 3

Explanation: 6 x 7 = 42. 45 - 42 = 3 left over, so 7 R 3.

Q3. What is 54 / 6? [1 Mark]

Correct Answer: 9

Explanation: Since 9 x 6 = 54, 54 / 6 = 9.

Q4. Evaluate: 0 / 6 = [1 Mark]

Correct Answer: 0

Explanation: Zero divided by any non-zero number is always 0.

Q5. At the Sports Team Uniform Storage, a supervisor has 84 items to divide equally among 6 work stations. How many items does each station get? [1 Mark]

Correct Answer: 14 items

Explanation: 84 / 6 = 14 items per station.

Q6. A baker has 47 cupcakes and packs them into boxes of 6. How many full boxes are packed, and how many cupcakes are left over? [1 Mark]

Correct Answer: 7 boxes and 5 left over

Explanation: 47 / 6 = 7 with a remainder of 5 (since 5 < 8).

Q7. During an event at the Sports Team Uniform Storage, 34 participants need to sit in rows of 6. What is the minimum number of rows needed so everyone has a seat? [1 Mark]

Correct Answer: 6 rows

Explanation: 34 / 6 = 5 with 4 people remaining. A 6th row is required to seat everyone.

Q8. Find the missing dividend: [?] / 6 = 8 [1 Mark]

Correct Answer: 48

Explanation: Multiply quotient by divisor: 8 x 6 = 48.

Q9. Find the missing divisor: 126 / [?] = 21 [1 Mark]

Correct Answer: 6

Explanation: Divide total by quotient: (126) / (21) = 6.

Q10. A student calculated 48 / 6 and wrote the answer as '6 R 12'. What is the mistake? [1 Mark]

Correct Answer: The remainder (12) is greater than the divisor (6), meaning more whole groups can be formed

Explanation: The remainder must always be strictly less than the divisor (6).

Q11. Tariq solved 24 / 3 = 8 and checked his work by doing 8 - 3 = 5. What is the correct way to check a division problem? [1 Mark]

Correct Answer: Multiply the quotient by the divisor (8 x 3 = 24)

Explanation: Inverse of division is multiplication: quotient x divisor = dividend.

Q12. When any whole number is divided by 5, what are all the possible remainders that can result? [2 Marks]

Correct Answer: 0, 1, 2, 3, or 4

Explanation: A remainder must be strictly smaller than the divisor 5, so possible remainders are 0, 1, 2, 3, 4.

Q13. If a number is divisible by both 2 and 3 with zero remainder, which of the following numbers must it also be divisible by? **[2 Marks]**

Correct Answer: 6

Explanation: A number divisible by both 2 and 3 is divisible by their product (2 x 3 = 6).

Q14. A school library received 175 new books. If each shelf holds exactly 6 books, how many shelves will be completely full, and how many more books are needed to fill the last incomplete shelf? **[2 Marks]**

Correct Answer: 28 shelves full, and 5 more book(s) needed

Explanation: (175) / 6 gives the number of full shelves and remainder.

Q15. Three friends share a bag of marbles equally and each gets 9 marbles with 1 marble left over. How many marbles were in the bag originally? **[2 Marks]**

Correct Answer: 28 marbles

Explanation: (Quotient x Divisor) + Remainder = (9 x 3) + 1 = 28 marbles.