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

Fractions and Equal Sharing - Worksheet 4 [ANSWER KEY]

Grade 3 | Mathematics | Ch 6: Fractions and Equal Sharing | Total Marks: 19 | Time: 30 Minutes

Q1. Which fraction represents three parts shaded out of 4 equal parts? [1 Mark]

Correct Answer: 3/4

Explanation: Numerator is 3 (shaded parts), denominator is 4 (total parts): 3/4.

Q2. Calculate 1/4 of 32 items: [1 Mark]

Correct Answer: 8

Explanation: 32 / 4 = 8.

Q3. Which fraction is EQUIVALENT to 1/2? [1 Mark]

Correct Answer: 2/4

Explanation: 1/2 = 2/4 (multiplying top and bottom by 2).

Q4. Which fraction is larger: 3/7 or 5/7? [1 Mark]

Correct Answer: 5/7

Explanation: When denominators are the same, the larger numerator represents the greater fraction: 5/7 > 3/7.

Q5. At the Art Studio Color Pastels, an organizer shares 32 items equally among 4 workshop tables. What fraction of the total items does each table receive? [1 Mark]

Correct Answer: 1/4

Explanation: Each table receives 1 part out of 4 equal parts = 1/4.

Q6. A baker bakes 20 cookies. If children eat 1/4 of the cookies at recess, how many cookies did they eat? [1 Mark]

Correct Answer: 5 cookies

Explanation: 20 / 4 = 5 cookies.

Q7. In a classroom of 30 students, 2/3 of the students walk to school. How many students walk to school? [1 Mark]

Correct Answer: 20 students

Explanation: 1/3 of 30 = 10. 2/3 of 30 = 10 x 2 = 20 students.

Q8. Complete the equivalent fraction: 1/3 = [?] / 9 [1 Mark]

Correct Answer: 3

Explanation: Multiply numerator and denominator by 3: 1 x 3 = 3, so 1/3 = 3/9.

Q9. Find the missing fraction: 2/7 + [?] = 7/7 (one whole) [1 Mark]

Correct Answer: 5/7

Explanation: 7/7 - 2/7 = 5/7.

Q10. Leo cuts a circle into 3 pieces of different sizes and says: 'Each piece is 1/3 of the circle.' What is Leo's mistake? [1 Mark]

Correct Answer: Fractions only represent EQUAL parts; if the pieces are different sizes, they are not thirds

Explanation: Fractions strictly require equal partitioning of the whole.

Q11. A student claims: '1/8 is bigger than 1/4 because 8 is bigger than 4.' Why is this claim incorrect? [1 Mark]

Correct Answer: As the denominator gets larger, the whole is divided into more pieces, making each piece SMALLER; 1/4 is bigger than 1/8

Explanation: Dividing a pizza into 8 slices yields smaller slices than dividing the same pizza into 4 slices.

Q12. Why is 2/4 of a chocolate bar exactly equal to 1/2 of the same chocolate bar? **[2 Marks]**

Correct Answer: Because 2 out of 4 equal parts covers the exact same area and amount as 1 out of 2 equal parts

Explanation: Both fractions represent half of the total area.

Q13. If you have 1/2 of a small mini-pizza and your friend has 1/2 of a giant family **[2 Marks]**
pizza, do both of you have the same amount of pizza? Explain.

Correct Answer: No, because the wholes are different sizes; half of a larger whole is greater than half of a smaller whole

Explanation: The value of a fraction depends on the size of the whole it refers to.

Q14. A fruit basket contains 24 fruits: 1/2 are apples, 1/4 are bananas, and the rest **[2 Marks]**
are oranges. How many oranges are in the basket?

Correct Answer: 6 oranges

Explanation: Apples: 1/2 of 24 = 12. Bananas: 1/4 of 24 = 6. Apples + Bananas = 18. Oranges = 24 - 18 = 6 oranges.

Q15. Three friends share a 36-piece puzzle. Alex completes 1/3 of it, Bella completes **[2 Marks]**
1/4 of it, and Charlie completes the remainder. How many pieces did Charlie complete?

Correct Answer: 15 pieces

Explanation: Alex: 36 / 3 = 12. Bella: 36 / 4 = 9. Alex + Bella = 21 pieces. Charlie: 36 - 21 = 15 pieces.