

## FIFTH GRADE MATH ANSWERS

1. B (Number sense: write numbers in numerals and words)
2. B (Computation and operation: multiplication)
3. C (Patterns: identify patterns in numbers, shapes, tables, and graphs)
4. Constructed response possible answer (Data: determine mean, mode, median, and range of a data set)

**Part A:**  $\frac{47 + 31 + 65 + 77 + 53 + 49 + 49}{7} = 53$  inches

**Part B:** The median is 49

Rearrange the data in ascending order:

31 47 49 49 53 65 77

The median is the value that divides the data set into two equal groups (the number in the center if the set is odd)

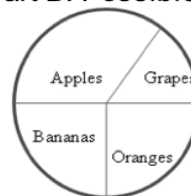
5. A (Spatial sense: identify or describe reflection symmetry) B, C, and D have more than one line of symmetry
6. A (Geometry: classify, identify, and compare acute, right, and obtuse angles)
7. A (Number sense: use positive and negative integers) The difference between 10 and 18 is -8 (Carlos is short \$8)
8. A (Computation and operation: multiplication and division) Multi-step problem: multiply 18 and 5, then divide the product (90) by 3
9. C (Computation and operation: subtraction of fractions)
10. B (Patterns: identify patterns in numbers, shapes, tables, and graphs)
11. A (Algebra: represent and evaluate mathematical situations) When the number sentence is solved, the variable,  $p$ , indicates the number of pages Eduardo read (NOTE: the number of pages Eduardo read can be represented as  $p + 36$  and Martha's pages would then be represented as simply  $p$ . On the other hand, since we want the number of pages Eduardo read to be the single variable,  $p$ , then Martha read 36 fewer pages, hence  $p - 36$ .)

12. (Measurement: use a net to compute the surface area) Answer 48 squared inches
13. D (Computation and operation: division)
14. D (Data: determine which graph matches a given set)
15. C (Probability: represent possible outcomes) Find the total number of leaves in the set (100), then find the number of leaves that are not orange (93).
16. B (Geometry: know the sum of the angles in triangles and quadrilaterals)
17. C (Number sense: equivalent fractions and decimals) Divide 27 by 36 and convert the answer to a percent or write the fraction  $27/36$  and reduce to  $3/4$ , which is 75%.
18. B (Number sense: estimation) Round 68 to 100 and round 303 to 300; subtract 100 from 300
19. A (Data: use percents to compare data sets)
20. A (Number sense: use positive and negative integers)
21. D (Computation and operation: addition and subtraction) Find the sum of the distances traveled by each family, then find the difference between the two
22. A (Computation and operation: interpret percents as a part of a hundred)
23. Constructed response possible answer (Data: fractions to compare data sets)

**Part A:**

Fruit	Fraction
apples	$\frac{1}{3}$
bananas	$\frac{1}{4}$
grapes	$\frac{1}{6}$
oranges	$\frac{1}{4}$

**Part B: Possible graph**





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24. D (Data: represent data with tables and graphs)
25. B (Geometry: sort three-dimensional objects according to the number and shape of faces, number of edges and vertices)
26. C (Geometry: classify polygons as regular or irregular) A regular polygon has both equal side and angle measures
27. (Measurement: find the area of a polygon)  
Answer: 11.25 cm squared