Data and geometry Worksheet

SAT Math

Name _____ Date _____

Warm-up

1. $\frac{7}{5} = \frac{x}{35}$. Find x.

2. Find the median of 5, 13, 9, 19, 22.

3. Find the radius of $(x-8)^2 + (y-4)^2 = 81$.

4. What's 50% of 70?

5. Find the mean of 3, 11, 19.

Practice

6. A recipe for 4 people uses 8 cups. How many cups for 8 people?

7. The average of 5 numbers is 22. What's their total?

8. In a right triangle with $\sin A = \frac{3}{5}$, what's $\cos B$?

9. A price rises from \$45 to \$63. What's the percent increase?

10. 19 of 44 boys and 25 of 53 girls play. A player is chosen at random. Find the probability it's a boy.

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11. Similar triangles have scale 3. The smaller area is 2. Find the larger area.

12. After 20% off, a shirt costs \$120. Find the original, in dollars.

13. Find the median of 4, 8, 14, 19.

Challenge

14. A value goes up 40% and then down 40%. What's the net percent decrease?

15. 6 tests average 74. What score on one more makes the average 77?

16. A central angle is 60° in a circle with radius 9. Find the arc length. Use pi.

17. x is 40% of y, and y is 50% of z. x is what percent of z?

18. A survey of gym members finds that 80% like exercise. What can you conclude?

    (A) Only about gym members (B) Exercise causes liking (C) 80% of everyone (D) All adults like exercise

Data and geometry Worksheet: Answer Key

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1. 49

   Scale by 7.

2. 13

   Sort: the middle is 13.

3. 9

   The root of 81.

4. 35

   0.5×70.

5. 11

   Total divided by 3.

6. 16

   2 cups per person.

7. 110

   Mean $\times$ count.

8. $\dfrac{3}{5}$

   $A + B = 90°$, so $\sin A = \cos B$.

9. 40

   $\dfrac{18}{45}$.

10. $\dfrac{19}{44}$

    Denominator is players only: 44.

11. 18

    Multiply by 3^2.

12. 150

    $120 \div 0.8$.

13. 11

    Average the two middle values.

14. 16

    $(1 + x)(1 - x) = 1 - x^2$.

15. 95

    New total minus old total.

16. 3π

    $\frac{60}{360} \cdot 2\pi r$.

17. 20

    Multiply the decimals.

18. (A) Only about gym members

    You can only generalize to the sampled group.

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