Powers, geometry and data Worksheet

Middle School Math

Name _____ Date _____

Warm-up

1. Find 4^3.

2. A triangle has base 20 and height 10. Find its area.

3. Find the range of $2, 3, 8$.

4. $700000 = 7 \times 10^n$. Find n.

5. A parallelogram has base 9 and height 11. Find its area.

Practice

6. Find $(-8)^2$.

7. A circle has diameter 8. Its area is $k\pi$. Find k.

8. Which changes most if one huge value is added to a list?
   (A) The median (B) The mean (C) They change equally (D) Neither

9. Which is 4.5×10^3?
   (A) 45000 (B) 450 (C) 4500 (D) 0.0045

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10. A circle has radius 6. Its circumference is $k\pi$. Find k.

11. Find the median of $3, 6, 8, 11$.

12. Find 2^6.

13. A triangle has area 44 and base 8. Find its height.

Challenge

14. $(2 \times 10^7)(3 \times 10^8) = 6 \times 10^n$. Find n.

15. If you double a circle's radius, its area is multiplied by what?

16. You scored 80 and 76. What do you need on a third test for a mean of 81?

17. Find $8^2 + 3^2$.

18. A square of side 16 has a circle inside that touches all four sides. The leftover area is $256 - k\pi$. Find k.

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Powers, geometry and data Worksheet: Answer Key

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1. 64

   $4 \times 4 \times 4$.

2. 100

   $\frac{1}{2} \times 20 \times 10$.

3. 6

   Biggest minus smallest.

4. 5

   There are 5 zeros.

5. 99

   Base times height.

6. 64

   Negative times negative is positive.

7. 16

   The radius is half the diameter: 4.

8. (B) The mean

   The mean uses every value's size. The median only cares about position.

9. (C) 4500

   Move the decimal 3 places right.

10. 12

    $C = 2\pi r$.

11. 7

    Average the two middle values.

12. 64

    Double, 6 times.

13. 11

    $\frac{1}{2} \times 8 \times h = 44$.

14. 15

    Multiply the fronts, then add the powers.

15. 4

    $(2r)^2 = 4r^2$.

16. 87

    The total must be 3×81.

17. 73

    Do both powers first, then add.

18. 64

    The radius is half the side.

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