Probability, angles and solids Worksheet

Middle School Math

Name _____ Date _____

Warm-up

1. Find P(rolling a 3) on a die, as a fraction.

2. Find the complement of $78°$, in degrees.

3. A cube has sides of 8. Find its volume.

4. $P = 0$ means:
   (A) It can't happen (B) It's 50-50 (C) It's certain (D) It's likely

5. Lines cross, and one angle is $112°$. What's the vertical angle, in degrees?

Practice

6. P(rain) is $\frac{8}{10}$. Find P(no rain) as a fraction.

7. Two angles on a line are x and $2x$. Find x.

8. Find the surface area of a box 4 by 3 by 6.

9. A spinner has $P(\text{win}) = \frac{1}{3}$. About how many wins in 51 spins?

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10. Angles around a point: $73°$, $68°$ and x. Find x.

11. A box has volume 36, with base 3 by 4. Find its height.

12. Find $P(\text{even})$ on a die, as a fraction.

13. A triangle has angles x, x and $82°$. Find x, in degrees.

Challenge

14. A class has 10 girls and 4 boys. One student is picked at random. Find $P(\text{girl})$ as a fraction.

15. Two angles on a line are $x + 37$ and $x - 9$. Find x.

16. If you double every side of a box, its volume is multiplied by what?

17. Flip two coins. Find $P(\text{two heads})$ as a fraction.

18. The exterior angle of a triangle is $170°$. What's the adjacent interior angle, in degrees?

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Probability, angles and solids Worksheet: Answer Key

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1. $\frac{1}{6}$
   One of six.
2. 12
   $90 - 78$.
3. 512
   8^3.
4. (A) It can't happen
   0 is impossible.
5. 112
   They're equal.
6. $\frac{1}{5}$
   They add to 1.
7. 60
   $3x = 180$.
8. 108
   Three pairs of faces.
9. 17
   $51 \times \frac{1}{3}$.
10. 219
    They add to 360.
11. 3
    Divide by base area.
12. $\frac{1}{2}$
    2, 4 and 6: three of six.
13. 49
    $2x + 82 = 180$.
14. $\frac{5}{7}$
    10 girls out of 14 students.
15. 76
    $2x + 28 = 180$.

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16. 8

    $2 \times 2 \times 2$.

17. $\frac{1}{4}$

    HH is one of HH, HT, TH, TT.

18. 10

    They form a straight line.

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