

Pre-Algebra Homework #10

- 1) If you take a randomly shuffled, standard deck of cards, what is the probability that the top card will be either a seven or a club?
- 2) If you take a randomly shuffled, standard deck of cards, what is the probability that the first dealt card is an ace and the second card dealt is also an ace?
- 3) You have been hired to design a compound probability experiment where the final theoretical probability of the compound event is exactly $\frac{9}{16}$. Create at least one, detailed, compound probability experiment that meets these requirements.
- 4) If you roll both a fair, six-sided and an eight-sided die, what is the probability of rolling a sum of 5 or 3?
- 5) If you roll both a fair eight-sided and ten-sided die, what is the probability that you will roll either a 3 or 4 on the eight-sided die and roll either a 8, 7, 6, or 5 on the ten-sided die?
- 6) Graph and label each of the following points all on one graph and state the quadrant for each point:
A. $(-4, 6)$ B. $(7, -5)$ C. $(3, 0)$ D. $(-5, -6)$ E. $(2, 4)$
- 7) Graph the equation $x - 2y = 8$ by plotting points.
- 8) Graph the equation $2x + 3y = 15$ using the equation of a line, identify the constant of proportionality (the slope) from the equation, and show the constant of proportionality, or slope, on the graph.
- 9) Graph and label each of the following points all on one graph and state the quadrant for each point:
A. $(4, -1)$ B. $(0, -2)$ C. $(-5, 5)$ D. $(-1, -1)$ E. $(2, 6)$
- 10) Graph the equation $x + 3y = 9$ by plotting points.
- 11) Graph the equation $-3x + 5y = 10$ using the equation of a line, identify the constant of proportionality (the slope) from the equation, and show the constant of proportionality, or slope, on the graph.

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- 12) Graph and label each of the following points all on one graph and state the quadrant for each point:

A. $(7,3)$ B. $(-2,5)$ C. $(-4,5)$ D. $(0,5)$ E. $(5,0)$

- 13) Graph the equation $-5x - 10y = 20$ by plotting points.

- 14) Graph the equation $8x - 2y = 6$ using the equation of a line, identify the constant of proportionality (the slope) from the equation, and show the constant of proportionality, or slope, on the graph.

- 15) Graph and label each of the following points all on one graph and state the quadrant for each point:

A. $(0,-6)$ B. $(3,4)$ C. $(-1,-3)$ D. $(4,-4)$ E. $(7,1)$

- 16) Graph the equation $3x + 4y = 0$ by plotting points.

- 17) Graph the equation $-4y = x$ using the equation of a line, identify the constant of proportionality (the slope) from the equation, and show the constant of proportionality, or slope, on the graph.

- 18) Graph and label each of the following points all on one graph and state the quadrant for each point:

A. $(5,1)$ B. $(0,0)$ C. $(-3,4)$ D. $(2,-6)$ E. $(0,1)$

- 19) Graph the equation $2x - 2y = 6$ by plotting points.

- 20) Graph the equation $12x + 3y = 9$ using the equation of a line, identify the constant of proportionality (the slope) from the equation, and show the constant of proportionality, or slope, on the graph.

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