Name: _____

1. Byron has 72 coins in his coin jar. The coin jar contains only dimes and quarters. If he has $14.70 in his coin jar, which equation can be used to determine q, the number of quarters he has?

1. $14.70 + 0.25q = 72$
2. $0.10(q - 72) + 0.25q = 14.70$
3. $0.10(72 - q) + 0.25q = 14.70$
4. $0.10q + 0.25(72 - q) = 14.70$

2. Which point is a solution to the system below?

$2y < -12x + 4$

$y < -6x + 4$

1. $(1, \frac{1}{2})$
2. $(0,6)$
3. $(-\frac{1}{2},5)$
4. $(-3,2)$

3. The formula for volume of a cone is $V = \frac{1}{3}\pi r^2 h$. The height, h, of the cone by be expressed as

1. $\frac{3V}{\pi r^2}$
2. $\frac{V}{3\pi r^2}$
3. $\sqrt{3V\pi r^2}$
4. $\frac{1}{3}V\pi r^2$

4. Which value of x is a solution of the inequality $25x - 100 < 250$?

1. 13 2. 14
3. 15 4. 16

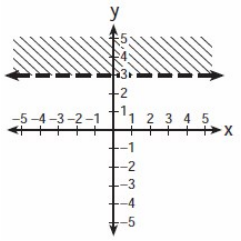
5. The length of a rectangle is three feet less than twice its width. If x represents the width of the rectangle, in feet, which inequality represents the area of the rectangle that is *at most* 30 square feet?

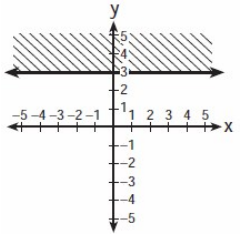
1. $x(2x - 3) \leq 30$
2. $x(2x - 3) \geq 30$
3. $x(3 - 2x) \leq 30$
4. $x(3 - 2x) \geq 30$

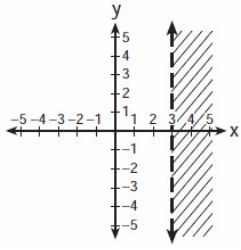
6. What is the solution of $3(2m - 1) \leq 4m + 7$?

1. $m \leq 5$ 2. $m \geq 5$
3. $m \leq 4$ 4. $m \geq 4$

7. Which graph represents the inequality $y > 3$?

1.


2.


3.


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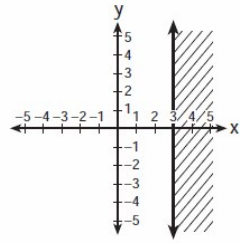

Answer Key for E13 practice 3

Question 1: 3
Question 2: 4
Question 3: 1
Question 4: 1
Question 5: 1
Question 6: 1
Question 7: 1