- 6. ABCD is a quadrilateral such that AB = BC, $AD = \frac{1}{2}CD$, and $AD = \frac{1}{4}AB$. If BC = 12, what is the perimeter of ABCD ?
 - (A) 44
 - (B) 42
 - (C) 40
 - (D) 36
 - (E) 33
- 7. If a, b, c, and d are consecutive multiples of 5, and a < b < c < d, what is the value of (a c)(d b)?

(A)	-100
(B)	-25
(C)	0
(D)	50
(E)	100

- 9. A store sells boxes of 6 lightbulbs for \$30 each, and boxes of 12 lightbulbs for \$48 each. The price per bulb is what percent less when purchased in a box of 12 than in a box of 6 ?
 - (A) 80%
 - (B) 75%
 - (C) 50% ·
 - (D) 25%
 - (E) 20%
- 13. Line *l* contains points (3, 2) and (4, 5). If line *m* is perpendicular to line *l*, then which of the following could be the equation of line *m*?

ور به مربع الروا

(A)
$$y = -\frac{1}{5}x + 3$$
 (D) $y = 5x + \frac{1}{3}$
(B) $y = -\frac{1}{3}x + 5$ (E) $y = 5x + \frac{1}{3}$
(C) $y = -3x + 5$

ALG 2 BELLWORK ANSWERS THESDAY JENN 12, 2016 12 THESDAY JENN 12, 2016 12 B 12 C 12 C 1
6 consecutive multiples are separated by 5
$\begin{array}{rcl} & 10 \ a part \\ \hline & 10 \ a part \\ \hline & 0 \ a part \\ \hline & 10 \ a part \\ \hline & (-10)(+10) = -100 \end{array}$
(9) 6 bulbs for #30 = #5 per bulb (2) bulbs for #48 = #4 per bulb (2) bulbs for #48 = #4 per bulb
$\% change = \frac{5-4}{5} \times 100 = \frac{1}{5} \times 100 = 20\%$
(13) $(3,2)$ $(4,5)$ $m = \frac{5-2}{4-3} = \frac{3}{1}$
slope of 1 line = -1/3 B