Name:

Date:

EOC Practice Problems

1. Look at the radical $-8\sqrt{726}$. What is a rewritten form of the radical?

Calculator



B. -90.75

C. -986√6

D. -2904

2. Look at the expression $2\sqrt{8} \cdot \sqrt{20}$. Which of these is equivalent to this expression? Calculator

A. $2\sqrt{28}$

B. 5

C. 8√10

D. $32\sqrt{10}$

Which sum is rational? Perfect Square

A. $\pi + 18$

 $\sqrt{25} + 1.75$

C. $\sqrt{3} + 5.5$

D. $\pi + \sqrt{2}$

4. Which product is irrational? Whole number = rational

B. $\sqrt{64.\sqrt{4}}$ C. $\sqrt{9.\sqrt{49}}$

A. $\sqrt{2} \cdot \sqrt{50}$

D. $\sqrt{10} \cdot \sqrt{8}$

A rectangle has a length of 12 meters and a width of 400 centimeters. What is the perimeter, in cm, of the rectangle?

D) 3200 cm

- A. 824 cm
- B. 1600 cm
- C. 2000 cm

Jill swam 200 meters in 2 minutes 42 seconds. If each lap is 50 meters long, which is most likely to be her time, in seconds, per lap?

2 min 42 sec = 162 sec

162 = 40.5 seconds

- A. 32 seconds secs
- B. 40 seconds
- C. 48 seconds
- D. 60

In which expression is the coefficient of term "n" -1?

A. $3n^2 + 4n - 1$

B. $-n^2 + 5n + 4$ $-2n^2 - n + 5 = -2n^2 - 1n + 5$

- 8. The expression s^2 is used to calculate the area of a square, where s is the side length of the square. What does the expression $(8x)^2$ represent?
 - A. the area of a square with a side length of 8

B. the area of a square with a side length of 16

C. the area of a square with a side length of 4x

D. the area of a square with a side length of 8x

52-7 5 is Side leight (8x)2-7 8x is Side leight

9. What is the product of 7x - 4 and 8x + 5?

(7x-4)(8x+5) 56x2+35x-32x-20

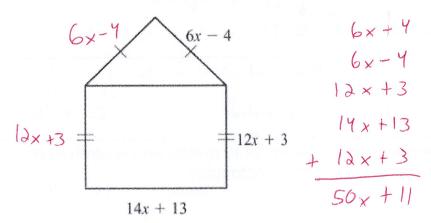
A. 15x + 1

B. 30x + 2

 $C.56x^2 + 3x - 20$

D. $56x^2 - 3x + 20$

10. A model of a house is shown. What is the perimeter, in units, of the model?



A. 32x + 12 units

B. 46x + 25 units

C.) 50x + 11 units

D. 64x + 24 units

11. Which expression has the same value as the expression?

$$(8x^2 + 2x - 6) - (5x^2 - 3x + 2)$$

A. $3x^2 - x - 4$

 $B.)3x^2 + 5x - 8$

C. $13x^2 - x - 8$

D. $13x^2 - 5x - 4$

8x2+2x-6-5x2+3x-6

3x2+5x-8