$\qquad$ Date: $\qquad$

## EOC Practice Problems

1. Look at the radical $-8 \sqrt{726}$. What is a rewritten form of the radical?
A. $-88 \sqrt{6}$
B. -90.75
C. $-986 \sqrt{6}$
D. -2904
2. Look at the expression $2 \sqrt{8} \cdot \sqrt{20}$. Which of these is equivalent to this expression?
A. $2 \sqrt{28}$
B. 5
C. $8 \sqrt{10}$
D. $32 \sqrt{10}$
3. Which sum is rational?
A. $\pi+18$
B. $\sqrt{25}+1.75$
C. $\sqrt{3}+5.5$
D. $\pi+\sqrt{2}$
4. Which product is irrational?
A. $\sqrt{2} \cdot \sqrt{50}$
B. $\sqrt{64} \cdot \sqrt{4}$
C. $\sqrt{9} \cdot \sqrt{49}$
D. $\sqrt{10} \cdot \sqrt{8}$
5. A rectangle has a length of 12 meters and a width of 400 centimeters. What is the perimeter, in cm , of the rectangle?
A. 824 cm
B. 1600 cm
C. 2000 cm
D. 3200 cm
6. 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?
A. 32 seconds
B. 40 seconds
C. 48 seconds
D. 60 secs
7. In which expression is the coefficient of term " n " - 1 ?
A. $3 n^{2}+4 n-1$
B. $-n^{2}+5 n+4$
C. $-2 n^{2}-n+5$
D. $4 n^{2}+n-5$
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 $(8 x)^{2}$ 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 $4 x$
D. the area of a square with a side length of $8 x$
9. What is the product of $7 x-4$ and $8 x+5$ ?
A. $15 x+1$
B. $30 x+2$
C. $56 x^{2}+3 x-20$
D. $56 x^{2}-3 x+20$
10. A model of a house is shown. What is the perimeter, in units, of the model?

$14 x+13$
A. $32 x+12$ units
B. $46 x+25$ units
C. $50 x+11$ units
D. $64 x+24$ units
11. Which expression has the same value as the expression?

$$
\left(8 x^{2}+2 x-6\right)-\left(5 x^{2}-3 x+2\right)
$$

A. $3 x^{2}-x-4$
B. $3 x^{2}+5 x-8$
C. $13 x^{2}-x-8$
D. $13 x^{2}-5 x-4$

