## Are YOU Ready?

Complete these exercises to review skills you will need for this module.

## Exponents

Persona Math Trainer

EXAMPLE $\quad$\begin{tabular}{rlrl}

$6^{3}$ \& $=6 \times 6 \times 6 \quad$ \& \& | Multiply the base (6) by itself the number of |
| :--- |
| times indicated by the exponent (3). | <br>

\& $=36 \times 6 \quad$ \& \& Find the product of the first two terms. <br>
\& $=216$
\end{tabular}

Evaluate each exponential expression.

1. $11^{2}$ $\qquad$ 2. $2^{5}$ $\qquad$ 3. $\left(\frac{1}{5}\right)^{3}$ $\qquad$ 4. $(0.3)^{2}$
2. $2.1^{3}$
3. $0.1^{3}$ $\qquad$ 7. $\left(\frac{9.6}{3}\right)^{2}$ $\qquad$ 8. $100^{3}$
$\qquad$
$\qquad$

## Round Decimals

The digit to be rounded: 6 The digit to its right is 8 . 8 is 5 or greater, so round up. The rounded number is 43.27.

Round to the underlined place.
9. 2.374 $\qquad$ 10. 126.399 $\qquad$ 11. 13.9577 $\qquad$ 12. 42.690 $\qquad$
13. 134.95 $\qquad$ 14. 2.0486 $\qquad$ 15. 63.6352 $\qquad$ 16. 98.9499 $\qquad$

## Simplify Numerical Expressions

EXAMPLE $\quad \frac{1}{3}(3.14)(4)^{2}(3)=\frac{1}{3}(3.14)(16)(3) \quad$ Simplify the exponent.
$=50.24 \quad$ Multiply from left to right.

## Simplify each expression.

17. $3.14(5)^{2}(10)$ $\qquad$ 18. $\frac{1}{3}(3.14)(3)^{2}(5)$ $\qquad$ 19. $\frac{4}{3}(3.14)(3)^{3}$ $\qquad$
18. $\frac{4}{3}(3.14)(6)^{3}$ $\qquad$ 21. $3.14(4)^{2}(9)$ $\qquad$ 22. $\frac{1}{3}(3.14)(9)^{2}\left(\frac{2}{3}\right)$
