Are YOU Ready?

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

Find the Square of a Number

EXAMPLE Find the square of $\frac{2}{3}$.

$\frac{2}{3} \times \frac{2}{3} = \frac{2 \times 2}{3 \times 3}$ Multiply the number by itself.

$= \frac{4}{9}$ Simplify.

Find the square of each number.

1. 7 _____   **2.** 21 _____   **3.** -3 _____   **4.** $\frac{4}{5}$ _____

5. 2.7 _____   **6.** $-\frac{1}{4}$ _____   **7.** -5.7 _____   **8.** $1\frac{2}{5}$ _____

Exponents

EXAMPLE $5^3 = 5 \times 5 \times 5$ Use the base, 5, as a factor 3 times.

$= 25 \times 5$ Multiply from left to right.

$= 125$

Simplify each exponential expression.

9. 9^2 _____   **10.** 2^4 _____   **11.** $\left(\frac{1}{3}\right)^2$ _____   **12.** $(-7)^2$ _____

13. 4^3 _____   **14.** $(-1)^5$ _____   **15.** 4.5^2 _____   **16.** 10^5 _____

Write a Mixed Number as an Improper Fraction

EXAMPLE $2\frac{2}{5} = 2 + \frac{2}{5}$ Write the mixed number as a sum of a whole number and a fraction.

$= \frac{10}{5} + \frac{2}{5}$ Write the whole number as an equivalent fraction with the same denominator as the fraction in the mixed number.

$= \frac{12}{5}$ Add the numerators.

Write each mixed number as an improper fraction.

17. $3\frac{1}{3}$ _____   **18.** $1\frac{5}{8}$ _____   **19.** $2\frac{3}{7}$ _____   **20.** $5\frac{5}{6}$ _____