

Review Exercise Set 12

Exercise 1: Write the improper fraction as a mixed number or a whole number.

$$\frac{29}{12}$$

Exercise 2: Write the improper fraction as a mixed number or a whole number.

$$\frac{29}{3}$$

Exercise 3: Write the mixed number as an improper fraction.

$$4\frac{3}{5}$$

Exercise 4: Write the mixed number as an improper fraction.

$$6\frac{2}{7}$$

Exercise 5: Write an equivalent fraction with the given denominator.

$$\frac{1}{4} = \frac{?}{24}$$

Exercise 6: Write an equivalent fraction with the given denominator.

$$\frac{2}{5} = \frac{?}{45}$$

Exercise 7: Place the correct symbol (< or >) between the two fractions.

$$\frac{2}{5} \quad \frac{4}{7}$$

Review Exercise Set 12 Answer Key

Exercise 1: Write the improper fraction as a mixed number or a whole number.

$$\frac{29}{12} = 2 \frac{5}{12}$$

You use long division to convert the improper fraction into a mixed or whole number.

$$\begin{array}{r} \text{denominator} \rightarrow 12 \overline{) 29} \\ \underline{-24} \\ 5 \end{array}$$

2 <- whole number
5 <- numerator

Exercise 2: Write the improper fraction as a mixed number or a whole number.

$$\frac{29}{3} = 9 \frac{2}{3}$$

Exercise 3: Write the mixed number as an improper fraction.

$$4 \frac{3}{5} = \frac{(4 \times 5) + 3}{5} = \frac{20 + 3}{5} = \frac{23}{5}$$

When converting a mixed number into an improper fraction, the improper fraction will have the same denominator as in the mixed number but the numerator of the improper fraction will be the sum of the numerator (from the mixed number) added to product of the whole number and the denominator (from the mixed number).

$$4 \frac{3}{5} = \frac{(4 * 5) + 3}{5}$$

Exercise 4: Write the mixed number as an improper fraction.

$$6 \frac{2}{7} = \frac{(6 \times 7) + 2}{7} = \frac{42 + 2}{7} = \frac{44}{7}$$

Exercise 5: Write an equivalent fraction with the given denominator.

$$\frac{1}{4} = \frac{?}{24}$$

Begin by dividing the denominators. $24 \div 4 = 6$ so we must multiply the numerator and denominator of one-fourth by six in order to obtain our equivalent fraction.

$$\frac{1 \times 6}{4 \times 6} = \frac{6}{24}$$

Exercise 6: Write an equivalent fraction with the given denominator.

$$\frac{2}{5} = \frac{?}{45}$$

$$45 \div 5 = 9$$

$$\frac{2 \times 9}{5 \times 9} = \frac{18}{45}$$

Exercise 7: Place the correct symbol (< or >) between the two fractions.

$$\frac{2}{5} \quad \frac{4}{7}$$

First, we would need to rewrite the fractions with a common denominator. With the two given fractions, the common denominator would be the product of the denominators .. $5 * 7 = 35$. The numerator and denominator of the first fraction would be multiplied by 7 and the numerator and denominator of the second fraction would be multiplied by 5.

$$\frac{2 \times 7}{5 \times 7} \quad \frac{4 \times 5}{7 \times 5}$$

Now, we can compare the fractions by looking at their numerators. 14 is less than 20 so $14/35$ would have to be less than $20/35$.

$$\frac{14}{35} < \frac{20}{35}$$