

The Farmers' Museum
Quilt Math Worksheet: Fractions

Name _____

Date _____

Directions: Use the vocabulary words and definitions from the Quilt Math lesson to complete the following sentences.

1. The numerator is _____
a. Write your own fraction in the box and circle the numerator

2. The denominator is _____
a. Write your own fraction in the box and circle the denominator

3. A whole fraction is _____
a. Write an example of a whole fraction in the box

4. Fractions can only be added if the _____s are the same.

Adding Fractions

Adding Fractions

Adding Fractions with Like Denominators

$$\frac{1}{7} + \frac{3}{7}$$

Add the numerators.
Denominator is unchanged.

$$\frac{1+3}{7}$$
$$\frac{4}{7}$$

Adding Fractions with Unlike Denominators

$$\frac{1}{8} + \frac{2}{3}$$

Rewrite with common denominator

$$3 \times \frac{1}{8} + \frac{2 \times 3}{3 \times 8}$$

Add the numerators

$$\frac{3}{24} + \frac{16}{24}$$
$$\frac{19}{24}$$

5. $\frac{1}{2} + \frac{1}{2} =$ _____

6. $\frac{1}{3} + \frac{1}{3} =$ _____

7. $\frac{1}{6} + \frac{4}{6} =$ _____

8. Draw a diagram under each of the last three questions to show what the fractions mean.
9. Draw a circle and divide it in half as many times as you can. Then shade in three sections.
What is the fraction for this circle?

Adding Fractions with Uncommon Denominators

Instructions: Add the following fractions showing each step of your work. Reduce to the lowest common denominator.

$$10. \frac{2}{4} + \frac{1}{2} =$$

$$11. \frac{2}{3} + \frac{3}{4} =$$

$$12. \frac{1}{3} + \frac{3}{4} =$$

$$13. \frac{2}{3} + \frac{3}{8} =$$

$$14. \frac{5}{4} + \frac{3}{6} =$$

$$15. \frac{3}{7} + \frac{1}{2} =$$

$$16. \frac{2}{8} + \frac{3}{4} =$$

$$17. \frac{8}{4} + \frac{4}{2} =$$

$$18. \frac{1}{7} + \frac{1}{2} =$$

$$19. \frac{3}{5} + \frac{1}{8} =$$

$$20. \frac{3}{4} + \frac{3}{6} =$$