

Subtracting Fractions

Date _____ Period _____

Subtract.

1) $\frac{1}{3} - \frac{3}{5}$

2) $\frac{2}{3} - \frac{8}{8}$

3) $\frac{2}{3} - \frac{4}{4}$

4) $\frac{2}{8} - \frac{5}{9}$

5) $\frac{5}{8} - \frac{6}{10}$

6) $\frac{2}{4} - \frac{4}{4}$

7) $\frac{3}{9} - \frac{1}{9}$

8) $\frac{1}{3} - \frac{2}{3}$

9) $\frac{5}{7} - \frac{5}{6}$

10) $\frac{3}{6} - \frac{5}{6}$

11) $\frac{7}{9} - \frac{1}{9}$

12) $\frac{2}{5} - \frac{2}{3}$

13) $\frac{4}{6} - \frac{3}{6}$

14) $\frac{1}{8} - \frac{4}{8}$

15) $\frac{6}{9} - \frac{4}{8}$

16) $\frac{5}{8} - \frac{3}{8}$

Subtracting Fractions

Subtract.

1) $\frac{1}{3} - \frac{3}{5}$

Answer:
 $\frac{4}{-15}$

2) $\frac{2}{3} - \frac{8}{8}$

Answer:
 $\frac{1}{-3}$

3) $\frac{2}{3} - \frac{4}{4}$

Answer:
 $\frac{1}{-3}$

4) $\frac{2}{8} - \frac{5}{9}$

Answer:
 $\frac{11}{-36}$

5) $\frac{5}{8} - \frac{6}{10}$

Answer:
 $\frac{1}{40}$

6) $\frac{2}{4} - \frac{4}{4}$

Answer:
 $\frac{1}{-2}$

7) $\frac{3}{9} - \frac{1}{9}$

Answer:
 $\frac{2}{9}$

8) $\frac{1}{3} - \frac{2}{3}$

Answer:
 $\frac{1}{-3}$

9) $\frac{5}{7} - \frac{5}{6}$

Answer:
 $\frac{5}{-42}$

10) $\frac{3}{6} - \frac{5}{6}$

Answer:
 $\frac{1}{-3}$

11) $\frac{7}{9} - \frac{1}{9}$

Answer:
 $\frac{2}{3}$

12) $\frac{2}{5} - \frac{2}{3}$

Answer:
 $\frac{4}{-15}$

$$13) \frac{4}{6} - \frac{3}{6}$$

Answer: $\frac{1}{6}$

$$14) \frac{1}{8} - \frac{4}{8}$$

Answer:
 $\frac{3}{8}$
 $-\frac{4}{8}$

$$15) \frac{6}{9} - \frac{4}{8}$$

Answer: $\frac{1}{6}$

$$16) \frac{5}{8} - \frac{3}{8}$$

Answer: $\frac{1}{4}$

MathVine - Pre-Algebra

Name _____

Subtracting Fractions

Date _____ Period _____

Solution Steps

$$1) \frac{1}{3} - \frac{3}{5}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators

The least common multiple of 3 and 5 is 15, so we need to multiply to make each of the

$$\frac{1}{3} \cdot \frac{5}{5} = \frac{5}{15}$$

$$\frac{3}{5} \cdot \frac{3}{3} = \frac{9}{15}$$

$$-\frac{9}{15} = -\frac{9}{15}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{5}{15} - \frac{9}{15} = -\frac{4}{15}$$

$$2) \frac{2}{3} - \frac{8}{8}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators

The least common multiple of 3 and 8 is 24, so we need to multiply to make each of the

$$\frac{2}{3} \cdot \frac{8}{8} = \frac{16}{24}$$

$$\frac{8}{8} \cdot \frac{3}{3} = \frac{24}{24}$$

$$-\frac{24}{24} = -\frac{24}{24}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{16}{24} - \frac{24}{24} = -\frac{8}{24}$$

$-\frac{8}{24}$ can be reduced, since 8 is a factor of both -8 and 24 :

$$-\frac{8}{24} \div \frac{8}{8} = -\frac{1}{3}$$

The fraction is now in lowest terms

$$3) \frac{2}{3} - \frac{4}{4}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators

The least common multiple of 3 and 4 is 12, so we need to multiply to make each of the

$$\frac{2}{3} \cdot \frac{4}{4} = \frac{8}{12}$$

$$\frac{4}{4} \cdot \frac{3}{3} = \frac{12}{12}$$

$$-\frac{12}{12} = -\frac{12}{12}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{8}{12} - \frac{12}{12} = -\frac{4}{12}$$

$-\frac{4}{12}$ can be reduced, since 4 is a factor of both -4 and 12 :

$$-\frac{4}{12} \div \frac{4}{4} = -\frac{1}{3}$$

The fraction is now in lowest terms

$$4) \frac{2}{8} - \frac{5}{9}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators

The least common multiple of 8 and 9 is 72, so we need to multiply to make each of the

$$\frac{2}{8} \cdot \frac{9}{9} = \frac{18}{72}$$

$$\frac{5}{9} \cdot \frac{8}{8} = \frac{40}{72}$$

$$-\frac{40}{72} = -\frac{40}{72}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{18}{72} - \frac{40}{72} = -\frac{22}{72}$$

$-\frac{22}{72}$ can be reduced, since 2 is a factor of both -22 and 72 :

$$-\frac{22}{72} \div \frac{2}{2} = -\frac{11}{36}$$

The fraction is now in lowest terms

$$5) \frac{5}{8} - \frac{6}{10}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators. The least common multiple of 8 and 10 is 40, so we need to multiply to make each of the denominators = 40

$$\frac{5}{8} * \frac{5}{5} = \frac{25}{40}$$

$$- \frac{6}{10} * \frac{4}{4} = - \frac{24}{40}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{25}{40} - \frac{24}{40} = \frac{1}{40}$$

$$6) \frac{2}{4} - \frac{4}{4}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{2}{4} - \frac{4}{4} = - \frac{2}{4}$$

$- \frac{2}{4}$ can be

reduced, since 2 is a factor of both -2 and 4:

$$- \frac{2}{4} \div \frac{2}{2} = - \frac{1}{2}$$

The fraction is now in lowest terms

$$7) \frac{3}{9} - \frac{1}{9}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{3}{9} - \frac{1}{9} = \frac{2}{9}$$

$$8) \frac{1}{3} - \frac{2}{3}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{1}{3} - \frac{2}{3} = - \frac{1}{3}$$

$$9) \frac{5}{7} - \frac{5}{6}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators. The least common multiple of 6 and 7 is 42, so we need to multiply to make each of the denominators = 42

$$\frac{5}{7} * \frac{6}{6} = \frac{30}{42}$$

$$-\frac{5}{6} * \frac{7}{7} = -\frac{35}{42}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{30}{42} - \frac{35}{42} = -\frac{5}{42}$$

$$10) \frac{3}{6} - \frac{5}{6}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{3}{6} - \frac{5}{6} = -\frac{2}{6}$$

$-\frac{2}{6}$ can be

reduced, since 2 is a factor of both -2 and 6:

$$-\frac{2}{6} \div \frac{2}{2} = -\frac{1}{3}$$

The fraction is now in lowest terms

$$11) \frac{7}{9} - \frac{1}{9}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{7}{9} - \frac{1}{9} = \frac{6}{9}$$

$\frac{6}{9}$ can be reduced,

since 3 is a factor of both 6 and 9:

$$\frac{6}{9} \div \frac{3}{3} = \frac{2}{3}$$

The fraction is now in lowest terms

$$12) \frac{2}{5} - \frac{2}{3}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators. The least common multiple of 3 and 5 is 15, so we need to multiply to make each of the denominators = 15

$$\frac{2}{5} * \frac{3}{3} = \frac{6}{15}$$

$$-\frac{2}{3} * \frac{5}{5} = -\frac{10}{15}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{6}{15} - \frac{10}{15} = -\frac{4}{15}$$

$$13) \frac{4}{6} - \frac{3}{6}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{4}{6} - \frac{3}{6} = \frac{1}{6}$$

$$14) \frac{1}{8} - \frac{4}{8}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{1}{8} - \frac{4}{8} = -\frac{3}{8}$$

$$15) \frac{6}{9} - \frac{4}{8}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators. The least common multiple of 8 and 9 is 72, so we need to multiply to make each of the denominators = 72

$$\frac{6}{9} * \frac{8}{8} = \frac{48}{72}$$

$$-\frac{4}{8} * \frac{9}{9} = -\frac{36}{72}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{48}{72} - \frac{36}{72} = \frac{12}{72}$$

$\frac{12}{72}$ can be reduced, since 12 is a factor of both 12 and 72:

$$\frac{12}{72} \div \frac{12}{12} = \frac{1}{6}$$

The fraction is now in lowest terms

$$16) \frac{5}{8} - \frac{3}{8}$$

Since these fractions have the same denominator, we can just subtract the numerators

$$\frac{5}{8} - \frac{3}{8} = \frac{2}{8}$$

$\frac{2}{8}$ can be reduced, since 2 is a factor of both 2 and 8:

$$\frac{2}{8} \div \frac{2}{2} = \frac{1}{4}$$

The fraction is now in lowest terms