

Adding Fractions

Date _____ Period _____

Add.

1) $\frac{2}{6} + \frac{1}{6}$

2) $\frac{3}{6} + \frac{2}{6}$

3) $\frac{4}{6} + \frac{3}{6}$

4) $\frac{2}{10} + \frac{4}{9}$

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

6) $\frac{2}{3} + \frac{1}{5}$

7) $\frac{2}{3} + \frac{2}{3}$

8) $\frac{7}{9} + \frac{8}{9}$

9) $\frac{1}{9} + \frac{7}{9}$

10) $\frac{3}{9} + \frac{5}{10}$

11) $\frac{5}{9} + \frac{1}{4}$

12) $\frac{3}{4} + \frac{4}{6}$

13) $\frac{6}{9} + \frac{6}{8}$

14) $\frac{7}{9} + \frac{4}{10}$

15) $\frac{3}{6} + \frac{5}{6}$

16) $\frac{1}{6} + \frac{2}{6}$

Adding Fractions

Date _____ Period _____

Add.

1) $\frac{2}{6} + \frac{1}{6}$

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

2) $\frac{3}{6} + \frac{2}{6}$

Answer: $\frac{5}{6}$

3) $\frac{4}{6} + \frac{3}{6}$

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

4) $\frac{2}{10} + \frac{4}{9}$

Answer: $\frac{29}{45}$

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

Answer:
 $1\frac{11}{20}$

6) $\frac{2}{3} + \frac{1}{5}$

Answer: $\frac{13}{15}$

7) $\frac{2}{3} + \frac{2}{3}$

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

8) $\frac{7}{9} + \frac{8}{9}$

Answer: $1\frac{2}{3}$

9) $\frac{1}{9} + \frac{7}{9}$

Answer: $\frac{8}{9}$

10) $\frac{3}{9} + \frac{5}{10}$

Answer: $\frac{5}{6}$

11) $\frac{5}{9} + \frac{1}{4}$

Answer: $\frac{29}{36}$

12) $\frac{3}{4} + \frac{4}{6}$

Answer:
 $1\frac{5}{12}$

$$13) \frac{6}{9} + \frac{6}{8}$$

Answer:
 $1\frac{5}{12}$

$$14) \frac{7}{9} + \frac{4}{10}$$

Answer:
 $1\frac{8}{45}$

$$15) \frac{3}{6} + \frac{5}{6}$$

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

$$16) \frac{1}{6} + \frac{2}{6}$$

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

MathVine - Pre-Algebra

Name _____

Adding Fractions

Date _____ Period _____

Solution Steps

$$1) \frac{2}{6} + \frac{1}{6}$$

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

$$\frac{2}{6} + \frac{1}{6} = \frac{3}{6}$$

$\frac{3}{6}$ can be reduced, since 3 is a factor of both 3 and 6:

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

The fraction is now in lowest terms

$$2) \frac{3}{6} + \frac{2}{6}$$

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

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

$$3) \frac{4}{6} + \frac{3}{6}$$

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

$$\frac{4}{6} + \frac{3}{6} = \frac{7}{6}$$

Because $\frac{7}{6}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

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

$$4) \frac{2}{10} + \frac{4}{9}$$

Since these fractions have different denominators, we need to find the least common multiple of the denominators. The least common multiple of 9 and 10 is 90, so we need to multiply to make each of the denominators = 90

$$\frac{2}{10} * \frac{9}{9} = \frac{18}{90}$$

$$\frac{4}{9} * \frac{10}{10} = \frac{40}{90}$$

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

$$\frac{18}{90} + \frac{40}{90} = \frac{58}{90}$$

$\frac{58}{90}$ can be reduced, since 2 is a factor of both 58 and 90:

$$\frac{58}{90} \div \frac{2}{2} = \frac{29}{45}$$

The fraction is now in lowest terms

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

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

The least common multiple of 4 and 5 is 20, so we need to multiply to make each of the

$$\frac{4}{4} \cdot \frac{4}{4} = \frac{16}{16}$$

$$\frac{5}{3} \cdot \frac{4}{5} = \frac{20}{15}$$

$$\frac{4}{4} \cdot \frac{5}{5} = \frac{20}{20}$$

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

$$\frac{16}{20} + \frac{20}{20} = \frac{36}{20}$$

Because $\frac{36}{20}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

$$\frac{36}{20} = 1 \frac{16}{20}$$

$$6) \frac{2}{3} + \frac{1}{5}$$

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

$$\frac{2}{3} \cdot \frac{5}{5} = \frac{10}{15}$$

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

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

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

$$\frac{10}{15} + \frac{3}{15} = \frac{13}{15}$$

$$7) \frac{2}{3} + \frac{2}{3}$$

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

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

Because $\frac{4}{3}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

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

$$8) \frac{7}{9} + \frac{8}{9}$$

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

$$\frac{7}{9} + \frac{8}{9} = \frac{15}{9}$$

$\frac{15}{9}$ can be reduced, since 3 is a factor of both 15 and 9:

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

The fraction is now in lowest terms

Because $\frac{5}{3}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

$$\frac{5}{3} = 1 \frac{2}{3}$$

$$9) \frac{1}{9} + \frac{7}{9}$$

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

$$\frac{1}{9} + \frac{7}{9} = \frac{8}{9}$$

$$10) \frac{3}{9} + \frac{5}{10}$$

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

The least common multiple of 9 and 10 is 90, so we need to multiply to make each of the

$$\frac{3}{9} * \frac{10}{10} = \frac{30}{90}$$

$$\frac{5}{10} * \frac{9}{9} = \frac{45}{90}$$

$$\frac{30}{90} + \frac{45}{90} = \frac{75}{90}$$

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

$$\frac{30}{90} + \frac{45}{90} = \frac{75}{90}$$

$\frac{75}{90}$ can be reduced,

since 15 is a factor of both 75 and 90:

$$\frac{75}{90} \div \frac{15}{15} = \frac{5}{6}$$

The fraction is now in lowest terms

$$11) \frac{5}{9} + \frac{1}{4}$$

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

The least common multiple of 9 and 4 is 36, so we need to multiply to make each of the

$$\frac{5}{9} * \frac{4}{4} = \frac{20}{36}$$

$$\frac{1}{4} * \frac{9}{9} = \frac{9}{36}$$

$$\frac{20}{36} + \frac{9}{36} = \frac{29}{36}$$

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

$$\frac{20}{36} + \frac{9}{36} = \frac{29}{36}$$

$$12) \frac{3}{4} + \frac{4}{6}$$

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

The least common multiple of 4 and 6 is 12, so we need to multiply to make each of the

$$\frac{3}{4} * \frac{3}{3} = \frac{9}{12}$$

$$\frac{4}{6} * \frac{2}{2} = \frac{8}{12}$$

$$\frac{9}{12} + \frac{8}{12} = \frac{17}{12}$$

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

$$\frac{9}{12} + \frac{8}{12} = \frac{17}{12}$$

Because $\frac{17}{12}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

$$\frac{17}{12} = 1 \frac{5}{12}$$

$$13) \frac{6}{9} + \frac{6}{8}$$

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

$$14) \frac{7}{9} + \frac{4}{10}$$

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

$$15) \frac{3}{6} + \frac{5}{6}$$

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

$$\frac{3}{6} + \frac{5}{6} = \frac{8}{6}$$

$$16) \frac{1}{6} + \frac{2}{6}$$

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

$$\frac{1}{6} + \frac{2}{6} = \frac{3}{6}$$

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

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

$$\frac{8}{9} * \frac{9}{9} = \frac{72}{81}$$

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

$$\frac{72}{48} + \frac{72}{81} = \frac{102}{72}$$

$\frac{102}{72}$ can be

reduced, since 6 is a factor of both 102 and 72:

$$\frac{102}{72} \div \frac{6}{6} = \frac{17}{12}$$

The fraction is now in lowest terms

Because $\frac{17}{12}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

$$\frac{17}{12} = 1 \frac{5}{12}$$

multiple of the denominators
 The least common multiple of 9 and 10 is 90, so we need to multiply to make each of the denominators = 90

$$\frac{9}{7} * \frac{10}{10} = \frac{90}{70}$$

$$\frac{10}{9} * \frac{9}{9} = \frac{90}{81}$$

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

$$\frac{90}{70} + \frac{90}{81} = \frac{106}{90}$$

$\frac{106}{90}$ can be

reduced, since 2 is a factor of both 106 and 90:

$$\frac{106}{90} \div \frac{2}{2} = \frac{53}{45}$$

The fraction is now in lowest terms

Because $\frac{53}{45}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

$$\frac{53}{45} = 1 \frac{8}{45}$$

$\frac{8}{6}$ can be reduced, since 2 is a factor of both 8 and 6:

$$\frac{8}{6} \div \frac{2}{2} = \frac{4}{3}$$

The fraction is now in lowest terms

Because $\frac{4}{3}$ is an improper fraction (the numerator is greater than the denominator), we need to convert it to a mixed number

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

$\frac{3}{6}$ can be reduced, since 3 is a factor of both 3 and 6:

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

The fraction is now in lowest terms