

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

Find the Least Common Multiple for each number pair.

1) 40, 12 120

Method #1:

2) 15, 20 \_\_\_\_\_

40: 40, 80, 120, 160,

3) 30, 3 \_\_\_\_\_

12: 12, 24, 36, 48, 60, 72, 84, 96, 108, 120

4) 30, 5 \_\_\_\_\_

Method #2:

5) 6, 40 \_\_\_\_\_

6) 12, 4 \_\_\_\_\_

7) 30, 6 \_\_\_\_\_

8) 3, 2 \_\_\_\_\_

9) 40, 20 \_\_\_\_\_

10) 12, 3 \_\_\_\_\_

11) 60, 20 \_\_\_\_\_

12) 60, 40 \_\_\_\_\_

13) 24, 4 \_\_\_\_\_

14) 3, 40 \_\_\_\_\_

15) 12, 30 \_\_\_\_\_

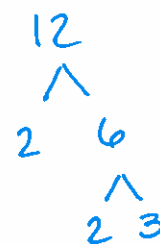
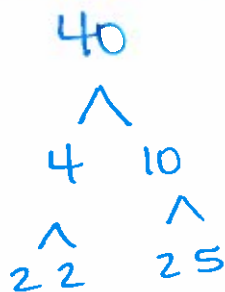
16) 5, 20 \_\_\_\_\_

17) 40, 120 \_\_\_\_\_

18) 60, 12 \_\_\_\_\_

19) 8, 2 \_\_\_\_\_

20) 60, 6 \_\_\_\_\_



$2 \cdot 2 \cdot 2 \cdot 5$

$2 \cdot 2 \cdot 3$

$LCM = 2 \cdot 2 \cdot 2 \cdot 3 \cdot 5 = 120$

Name : \_\_\_\_\_

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Date : \_\_\_\_\_

Find the Greatest Common Factor for each number pair.

- 1) 3, 6    3
- 2) 5, 24    \_\_\_\_\_
- 3) 40, 60    \_\_\_\_\_
- 4) 15, 8    \_\_\_\_\_
- 5) 10, 4    \_\_\_\_\_
- 6) 40, 10    \_\_\_\_\_
- 7) 3, 24    \_\_\_\_\_
- 8) 120, 30    \_\_\_\_\_
- 9) 4, 10    \_\_\_\_\_
- 10) 20, 24    \_\_\_\_\_
- 11) 24, 8    \_\_\_\_\_
- 12) 40, 8    \_\_\_\_\_
- 13) 20, 15    \_\_\_\_\_
- 14) 120, 60    \_\_\_\_\_
- 15) 120, 15    \_\_\_\_\_
- 16) 6, 20    \_\_\_\_\_
- 17) 2, 4    \_\_\_\_\_
- 18) 3, 60    \_\_\_\_\_
- 19) 5, 3    \_\_\_\_\_
- 20) 8, 40    \_\_\_\_\_



Name : \_\_\_\_\_

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Date : \_\_\_\_\_

\* First find common denominator. Adding Fractions

$$1) \quad \frac{9}{23} + \frac{6}{46} = \frac{18}{46} + \frac{6}{46} = \frac{24}{46} = \frac{12}{23}$$

$$2) \quad \frac{4}{8} + \frac{4}{12} =$$

$$3) \quad \frac{3}{4} + \frac{5}{7} =$$

$$4) \quad \frac{9}{22} + \frac{7}{10} =$$

$$5) \quad \frac{11}{32} + \frac{7}{8} =$$

$$6) \quad \frac{4}{11} + \frac{12}{55} =$$

$$7) \quad \frac{8}{21} + \frac{3}{7} =$$

$$8) \quad \frac{3}{6} + \frac{1}{4} =$$

$$9) \quad \frac{3}{78} + \frac{6}{26} =$$

$$10) \quad \frac{9}{98} + \frac{5}{7} =$$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

\* Find common

denominator.

### Adding Mixed Numbers

$$1) \quad 3\frac{15}{45} + 7\frac{3 \times 9}{5 \times 9} = 3\frac{15}{45} + 7\frac{27}{45} = 10\frac{42}{45} = 10\frac{14}{15}$$

$$2) \quad 1\frac{2}{4} + 8\frac{3}{5} =$$

$$3) \quad 4\frac{16}{27} + 5\frac{15}{54} =$$

$$4) \quad 3\frac{12}{30} + 7\frac{16}{40} =$$

$$5) \quad 2\frac{19}{58} + 8\frac{1}{29} =$$

$$6) \quad 1\frac{15}{86} + 9\frac{2}{43} =$$

$$7) \quad 6\frac{10}{16} + 8\frac{11}{64} =$$

$$8) \quad 3\frac{16}{28} + 7\frac{3}{7} =$$

$$9) \quad 1\frac{3}{4} + 6\frac{1}{3} =$$

$$10) \quad 4\frac{7}{21} + 8\frac{6}{7} =$$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

### Subtracting Fractions

$$1) \quad \frac{3}{11} - \frac{2}{77} = \frac{21}{77} - \frac{2}{77} = \frac{19}{77}$$

$$2) \quad \frac{20}{21} - \frac{5}{7} =$$

$$3) \quad \frac{9}{28} - \frac{6}{56} =$$

$$4) \quad \frac{2}{4} - \frac{5}{20} =$$

$$5) \quad \frac{17}{82} - \frac{5}{41} =$$

$$6) \quad \frac{16}{46} - \frac{2}{23} =$$

$$7) \quad \frac{3}{7} - \frac{3}{21} =$$

$$8) \quad \frac{2}{9} - \frac{2}{18} =$$

$$9) \quad \frac{13}{14} - \frac{6}{7} =$$

$$10) \quad \frac{17}{29} - \frac{9}{58} =$$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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### Subtracting Mixed Numbers

1)  $5\frac{14}{55} - 2\frac{1}{5} = 5\frac{14}{55} - 2\frac{11}{55} = 3\frac{3}{55}$

2)  $5\frac{10}{98} - 4\frac{5}{7} =$

3)  $9\frac{14}{15} - 1\frac{4}{5} =$

4)  $7\frac{7}{77} - 1\frac{4}{11} =$

5)  $7\frac{10}{31} - 1\frac{8}{62} =$

6)  $8\frac{8}{86} - 1\frac{15}{43} =$

7)  $9\frac{12}{16} - 3\frac{4}{8} =$

8)  $6\frac{11}{28} - 4\frac{5}{14} =$

9)  $9\frac{13}{23} - 3\frac{7}{46} =$

10)  $5\frac{2}{3} - 2\frac{10}{18} =$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

### Multiplying Fractions

1)  $\frac{14}{18} \times \frac{15}{16} = \frac{35}{48}$

Method # 1:  $\frac{14}{18} \times \frac{15}{16} = \frac{210}{288} = \frac{35}{48}$

2)  $\frac{2}{3} \times \frac{1}{2} =$

Method # 2:  $\frac{\cancel{14}^7}{\cancel{18}_6} \times \frac{\cancel{15}^5}{\cancel{16}_8} = \frac{35}{48}$

3)  $\frac{6}{9} \times \frac{13}{20} =$

4)  $\frac{3}{5} \times \frac{4}{16} =$

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

6)  $\frac{2}{15} \times \frac{4}{12} =$

7)  $\frac{2}{3} \times \frac{1}{4} =$

8)  $\frac{3}{8} \times \frac{1}{2} =$

9)  $\frac{2}{10} \times \frac{5}{18} =$

10)  $\frac{1}{2} \times \frac{11}{15} =$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

Change mixed numbers to improper fractions

### Multiplying Mixed Numbers

$$1) \quad 2\frac{1}{4} \times 2\frac{3}{10} = \frac{9}{4} \times \frac{23}{10} = \frac{207}{40}$$

$$2) \quad 3\frac{3}{5} \times 4\frac{1}{2} =$$

$$3) \quad 2\frac{4}{5} \times 2\frac{3}{4} =$$

$$4) \quad 4\frac{2}{5} \times 3\frac{7}{8} =$$

$$5) \quad 2\frac{3}{4} \times 3\frac{1}{5} =$$

$$6) \quad 3\frac{2}{3} \times 3\frac{1}{7} =$$

$$7) \quad 2\frac{1}{2} \times 2\frac{3}{7} =$$

$$8) \quad 3\frac{2}{3} \times 4\frac{5}{7} =$$

$$9) \quad 2\frac{1}{3} \times 4\frac{1}{5} =$$

$$10) \quad 3\frac{3}{4} \times 3\frac{1}{7} =$$



Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

### Dividing Fractions

$$1) \quad \frac{17}{20} \div \frac{2}{6} = \frac{17}{20} \times \frac{6}{2} = \frac{102}{40} = \frac{51}{20}$$

$$2) \quad \frac{2}{3} \div \frac{16}{20} =$$

$$3) \quad \frac{1}{2} \div \frac{1}{8} =$$

$$4) \quad \frac{1}{6} \div \frac{4}{5} =$$

$$5) \quad \frac{4}{9} \div \frac{11}{14} =$$

$$6) \quad \frac{4}{9} \div \frac{6}{10} =$$

$$7) \quad \frac{1}{2} \div \frac{9}{14} =$$

$$8) \quad \frac{2}{10} \div \frac{1}{3} =$$

$$9) \quad \frac{4}{5} \div \frac{1}{7} =$$

$$10) \quad \frac{11}{14} \div \frac{1}{9} =$$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

### Dividing Mixed Numbers

$$1) \quad 4\frac{1}{3} \div 4\frac{5}{6} = \frac{13}{3} \div \frac{29}{6} = \frac{13}{3} \cdot \frac{6}{29} = \frac{78}{87} = \frac{26}{29}$$

$$2) \quad 3\frac{2}{3} \div 4\frac{1}{2} =$$

$$3) \quad 2\frac{1}{2} \div 3\frac{2}{3} =$$

$$4) \quad 4\frac{7}{10} \div 4\frac{3}{4} =$$

$$5) \quad 4\frac{3}{5} \div 4\frac{2}{5} =$$

$$6) \quad 4\frac{1}{2} \div 3\frac{2}{3} =$$

$$7) \quad 4\frac{1}{4} \div 3\frac{2}{3} =$$

$$8) \quad 3\frac{1}{4} \div 3\frac{9}{10} =$$

$$9) \quad 2\frac{1}{2} \div 3\frac{1}{2} =$$

$$10) \quad 2\frac{2}{9} \div 3\frac{2}{3} =$$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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## Rounding Decimal Numbers

Round each number to the nearest tenth.

1 )     9.91     9.9 \_\_\_\_\_

6 )     7.31     \_\_\_\_\_

2 )     9.12     \_\_\_\_\_

7 )     8.75     \_\_\_\_\_

3 )     1.19     \_\_\_\_\_

8 )     4.51     \_\_\_\_\_

4 )     6.21     \_\_\_\_\_

9 )     4.66     \_\_\_\_\_

5 )     7.61     \_\_\_\_\_

10 )     3.53     \_\_\_\_\_

Round each number to the nearest tenth.

1 )     7.185     7.2 \_\_\_\_\_

6 )     2.742     \_\_\_\_\_

2 )     6.596     \_\_\_\_\_

7 )     1.574     \_\_\_\_\_

3 )     6.596     \_\_\_\_\_

8 )     1.225     \_\_\_\_\_

4 )     6.941     \_\_\_\_\_

9 )     1.717     \_\_\_\_\_

5 )     4.942     \_\_\_\_\_

10 )     7.222     \_\_\_\_\_

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

## Rounding Decimal Numbers

Round each number to the nearest hundredth.

1 ) 5.535 5.54

6 ) 4.745 \_\_\_\_\_

2 ) 5.127 \_\_\_\_\_

7 ) 1.182 \_\_\_\_\_

3 ) 5.452 \_\_\_\_\_

8 ) 5.521 \_\_\_\_\_

4 ) 8.355 \_\_\_\_\_

9 ) 9.411 \_\_\_\_\_

5 ) 4.218 \_\_\_\_\_

10 ) 1.537 \_\_\_\_\_

Round each number to the nearest hundredth.

1 ) 7.1148 7.11

6 ) 9.7932 \_\_\_\_\_

2 ) 9.3145 \_\_\_\_\_

7 ) 9.2994 \_\_\_\_\_

3 ) 1.8725 \_\_\_\_\_

8 ) 8.6224 \_\_\_\_\_

4 ) 7.2342 \_\_\_\_\_

9 ) 2.8849 \_\_\_\_\_

5 ) 8.6714 \_\_\_\_\_

10 ) 5.1699 \_\_\_\_\_

Name : \_\_\_\_\_ Score : \_\_\_\_\_

Teacher : \_\_\_\_\_ Date : \_\_\_\_\_

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## Order of Operations

1 )  $(14 + 28 - 2) \div 5$

$(42 - 2) \div 5$

$40 \div 5$

$8$

6 )  $(16 - 5) + 15 \div 3$

2 )  $(15 - 5) \times 12 - 3$

7 )  $2 \times 5 \times (7 + 9)$

3 )  $(19 + 7) \times 9 + 2$

8 )  $(8 - 3) + 16 \div 2$

4 )  $9 \times 11 \times (7 - 5)$

9 )  $(8 + 20) \div (7 - 3)$

5 )  $(9 + 51) \div (11 + 4)$

10 )  $(14 + 41 - 5) \div 5$



Name : \_\_\_\_\_

Score : \_\_\_\_\_

Teacher : \_\_\_\_\_

Date : \_\_\_\_\_

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## Order of Operations

1 )  $(4 \times 7 - 6^2) + 7$

$(4 \times 7 - 36) + 7$

$(28 - 36) + 7$

$-8 + 7$

$-1$

6 )  $5 \times (8 + 2) - 2^2$

2 )  $(51 - 3) \div 24 - 6^2$

7 )  $(12 \times 7 + 5^2) - 7$

3 )  $(9 - 4)^2 + (14 \div 2)$

8 )  $(64 - 2^2) \div (36 - 6)$

4 )  $(5 + 3)^2 + (20 \div 2)$

9 )  $(48 - 4^2) \div (9 - 5)$

5 )  $(42 - 2) \div 2 - 6^2$

10 )  $7 \times (11 - 4) - 7^2$



Name : \_\_\_\_\_

Score : \_\_\_\_\_

**Parentheses in PEMDAS**

Mixed: 51

Solve.

1)  $(6 \times \frac{3}{2}) \div \frac{4}{3}$

$$9 \div \frac{4}{3}$$
$$9 \cdot \frac{3}{4}$$

Ans =  $( \frac{27}{4} )$

2)  $1.7 \times (0.6 + 5.5) - 0.19$

Ans =  $( \quad )$

3)  $(3.87 - 2.13) \div 0.2$

Ans =  $( \quad )$

4)  $8 - \frac{5}{6} \div (\frac{1}{2} + 2)$

Ans =  $( \quad )$

5)  $7.25 - 4 \times (1.1 \times 0.7)$

Ans =  $( \quad )$

6)  $(16 \div \frac{4}{5}) - 5 \times 2$

Ans =  $( \quad )$

7)  $(14 \times \frac{1}{4}) - 2$

Ans =  $( \quad )$

8)  $4.9 \div (0.39 + 0.31)$

Ans =  $( \quad )$

9)  $12 \times (5 + \frac{1}{4})$

Ans =  $( \quad )$

10)  $6 + 2 \div (\frac{9}{2} - 3)$

Ans =  $( \quad )$

Name : \_\_\_\_\_

Score : \_\_\_\_\_

**Parentheses in PEMDAS**

Mixed: S2

Solve.

1)  $8 \times \left(\frac{7}{3} - 2\right)$   
 $8 \times \left(\frac{7}{3} - \frac{6}{3}\right)$   
 $8 \times \frac{1}{3}$

Ans =  $\left(\frac{8}{3}\right)$

2)  $4.5 \div (0.5 + 1)$

Ans =  $( \quad )$

3)  $2.1 \times (4.7 + 2.9) \div 3$

Ans =  $( \quad )$

4)  $7 - \left(4 + \frac{5}{2}\right) \div 2$

Ans =  $( \quad )$

5)  $\left(10 \div \frac{1}{2}\right) + \frac{1}{5}$

Ans =  $( \quad )$

6)  $(2.4 \div 0.4) - 0.07$

Ans =  $( \quad )$

7)  $27.5 + (0.69 \div 3)$

Ans =  $( \quad )$

8)  $50 - 5 \times (1.8 \div 0.2)$

Ans =  $( \quad )$

9)  $1.4 \times (0.7 + 3.8) - 0.71$

Ans =  $( \quad )$

10)  $5 \times \left(6 - \frac{3}{2}\right)$

Ans =  $( \quad )$



Name : \_\_\_\_\_

Score : \_\_\_\_\_

## Parentheses in PEMDAS

Mixed: S3

Solve.

1)  $7.2 \times (3.6 - 0.4)$   
 $7.2 \times (3.2)$

Ans =  $(23.04)$

2)  $(\frac{4}{3} + 2) + \frac{3}{5} \times 15$

Ans =  $( \quad )$

3)  $22 - (\frac{4}{3} \div \frac{2}{3}) + 16$

Ans =  $( \quad )$

4)  $(7.6 + 4.2) \div 2 + 1.04$

Ans =  $( \quad )$

5)  $(10.7 - 3.2) \div 5$

Ans =  $( \quad )$

6)  $(8 \div \frac{4}{7}) - 2$

Ans =  $( \quad )$

7)  $5 \times (\frac{7}{2} - 2) \div \frac{3}{4}$

Ans =  $( \quad )$

8)  $1.56 + 7.2 \times (8 - 0.9)$

Ans =  $( \quad )$

9)  $(1.26 \div 2) - 0.35$

Ans =  $( \quad )$

10)  $(5 + 8) \div \frac{6}{5}$

Ans =  $( \quad )$