

All problems should be completed without a calculator.

Section 1 – Use =, or >, or < to compare.

1). 0 _____ -3

2). -4 _____ -5

3). $\frac{10}{5}$ _____ 2

4). $-\frac{1}{3}$ _____ $-0.\bar{3}$

5). -11.99 _____ -11.98

6). $12\frac{1}{2}$ _____ 12.5

Section 2 – Write in order from least to greatest.

1). $-2, 2.25, -2.75$

2). $-4, 0, -1$

3). $\sqrt{36}, \sqrt{25}, \sqrt{49}$

4). $\frac{4}{9}, \frac{5}{9}, \frac{1}{9}$

5). $\frac{1}{3}, \frac{1}{6}, \frac{1}{9}$

Section 3 – Write these fractions in simplest form.

1). $\frac{4}{12}$

2). $\frac{3}{27}$

3). $\frac{6}{24}$

4). $\frac{11}{55}$

5). $\frac{8}{20}$

6). $\frac{7}{14}$

7). $\frac{90}{100}$

Section 4 – Write each fraction as a mixed number.

1). $\frac{17}{5}$

2). $\frac{35}{6}$

3). $\frac{19}{12}$

Section 5 – Write each fraction as an improper fraction.

1). $2\frac{1}{3}$

2). $5\frac{1}{4}$

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

Section 6 – Add or subtract. Write each answer in simplest form.

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

2). $\frac{2}{3} + \frac{1}{3}$

3). $\frac{9}{5} - \frac{6}{5}$

4). $\frac{9}{10} - \frac{3}{10}$

5). $\frac{3}{4} + \frac{2}{3}$

6). $\frac{5}{8} - \frac{1}{4}$

7). $\frac{1}{3} - \frac{1}{2}$

8). $-\frac{4}{5} - \frac{7}{12}$

9). $-\frac{3}{10} + \frac{1}{7}$

Section 7 – Find each sum or difference.

1). $-3 - 6$

2). $8 - 2$

3). $-10 + 9$

4). $-4 - 20$

5). $-90 - 10$

6). $57 - 60$

7). $-98 + 56$

8). $-25 - 10$

9). $-8 - (-10)$

10). $4 - (-20)$

11). $-12 - (-8)$

12). $-18 - (-8)$

13). $-11 - 13 - 1(-12)$

14). $35 - 15 - 16$

15). $-18 - (-45) + 46$

Continue with Section 7 Find each product or quotient:

16). $-3 \cdot -4$

17). $-16 \cdot 2$

18). $20 \cdot -2$

19). $-6 \cdot -9$

20). $(-9)(-3)$

21). $(-11)(6)$

22). $(9)(-15)$

23). $(2)(-3)(5)$

24). $12 \div -2$

25). $-15 \div -5$

26). $-36 \div 6$

27). $75 \div 3$

28). $\frac{16}{-2}$

29). $\frac{-81}{9}$

30). $\frac{-18}{-3}$

31). $\frac{75}{3}$

Section 8 – Multiply or Divide. Write answer in simplest form.

1). $\frac{2}{5} \cdot \frac{3}{4}$

2). $\frac{1}{2} \cdot \frac{1}{2}$

3). $\frac{7}{8} \cdot \frac{1}{5}$

4). $3\frac{1}{5} \cdot 1\frac{7}{8}$

5). $\frac{3}{5} \div \frac{1}{2}$

6). $\frac{4}{5} \div \frac{9}{10}$

7). $7\frac{2}{3} \div \frac{2}{9}$

8). $\frac{10}{9} \div \frac{2}{27}$

Section 9 – Simplify each expression.

1). $30 \div 2(3)$

2). $4 + 6(7)$

3). $4 \cdot 3^2 + 2$

4). $(2+4) \div (2+1)$

5). $2 \div 9 - 4 + 3$

6). $8 + 2 \cdot 4$

7). $8(4-2)$

8). $4 + 8 + 2 + 6 \cdot 3$

9). $4 - (6 + 3)$

10). $\frac{3(6+2)}{3+1}$

11). $7 + 3(-2 + 4)^2$

Section 10 – Write each number as percent.

1). .25

2). $\frac{4}{5}$

3). $\frac{1}{2}$

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

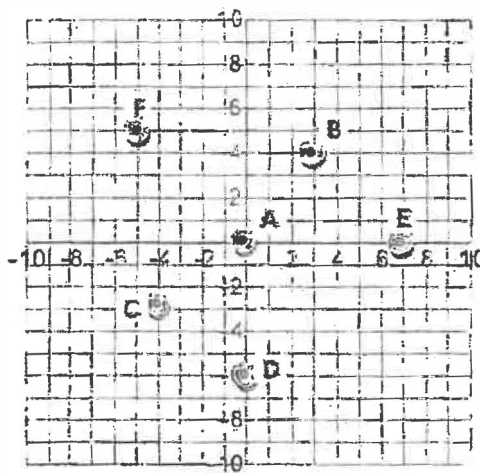
5). .478

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

7). 0.08

8). $\frac{17}{100}$

Section 11 – Please give the coordinates of the labeled coordinates.



A = (,)

B = (,)

C = (,)

D = (,)

E = (,)

F = (,)

Section 12 – Please plot the following points on the graph provided.

A = (1 , 1)

B = (-2 , 4)

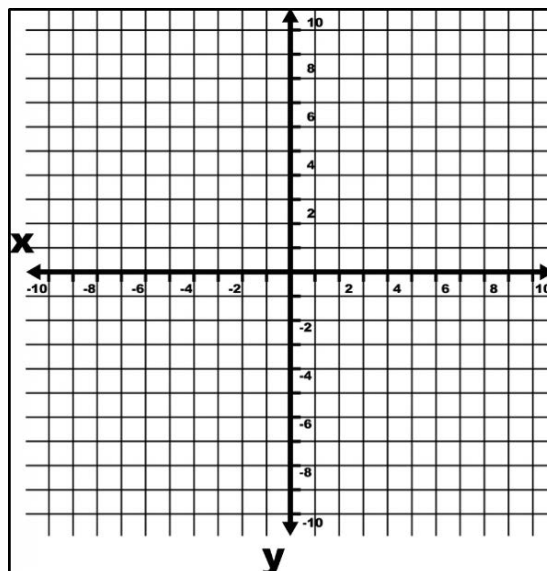
C = (-3 , -3)

D = (0 , 6)

E = (-4 , 0)

F = (8 , 8)

G = (6 , -5)



Section 13 – Evaluate each expression for $a = -2$ and $b = -3$

1). $a - b$

2). $a \cdot b$

3). $a(b)$

4). $b \cdot a$

5). ab

6). $b - a$

7). $a \div b$

8). $\frac{a}{b}$

Indicate whether the equation illustrates the multiplicative property of 0, the multiplicative identity, the commutative property of multiplication, the associative property of multiplication, or the distributive property.

53) $\left(-\frac{1}{6}\right) \cdot 1 = -\frac{1}{6}$

A) Commutative property of multiplication

B) Distributive property

C) Multiplicative inverse

D) Multiplicative identity

53) _____

54) $\left(\frac{1}{9}\right) \cdot 0 = 0$

A) Multiplicative identity

B) Multiplicative property of 0

C) Commutative property of multiplication

D) Distributive property

54) _____

55) $(6 \cdot 6) \cdot 2 = 6 \cdot (6 \cdot 2)$

A) Multiplicative identity

B) Associative property of multiplication

C) Distributive property

D) Commutative property of multiplication

55) _____

56) $8(2 + 4) = 8 \cdot 2 + 8 \cdot 4$

A) Multiplicative identity

B) Commutative property of multiplication

C) Distributive property

D) Associative property of multiplication

56) _____

57) $(7.3)(4.5) = (4.5)(7.3)$

A) Commutative property of multiplication

B) Associative property of multiplication

C) Multiplicative identity

D) Distributive property

57) _____

58) $-(1 + 6) = -1 - 6$

A) Multiplicative identity

B) Commutative property of multiplication

C) Distributive property

D) Associative property of multiplication

58) _____

Fraction Practice

Please use your resources to correctly simplify each fraction problem below. It is important to come into algebra class in the Fall with your fraction skills in place. Remember...you will be assessed on your fraction skills, as well as the other packet skills, the first full week of school. Look it up online if you are having problems remembering how to complete the problem.

Show your work!

$$1) \frac{-2}{3} + \frac{4}{5}$$

$$2) \frac{3}{5} - \frac{1}{4}$$

$$3) \frac{-5}{8} + \frac{2}{15}$$

$$4) \frac{5}{6} + \frac{2}{9}$$

$$5) 5\frac{1}{2} + 2\frac{3}{10}$$

$$6) 3\frac{2}{7} - 5\frac{5}{7}$$

$$7) (-3\frac{1}{3}) (-1\frac{7}{8})$$

$$8) 15 \div (-1 \frac{1}{4})$$

$$9) -3 \frac{7}{12} - 2 \frac{2}{3}$$

$$10) -7 \frac{4}{5} + 4 \frac{1}{2}$$

$$11) \left(\frac{-3}{8} \right)^2$$

$$12) \frac{5x}{8} + \frac{x}{3}$$

$$13) \left(\frac{-2}{5} \right)^3$$

Fractions, Decimals, and Percents

Write each as a decimal. Round to the thousandths place.

1) 90%

2) 30%

3) 115.9%

4) 9%

5) 7%

6) 65%

7) 0.3%

8) 445%

Write each as a percent. Round to the nearest tenth of a percent.

9) 0.452

10) 0.006

11) 0.002

12) 0.05

13) 4.78

14) 0.1

15) 3.63

16) 0.03

Write each as a fraction.

17) 25%

18) 70%

19) 93%

20) 58%

21) 50%

22) $66.\overline{6}\%$

23) 20%

24) 80%

25) 71%

26) 30%

Write each as a percent. Use repeating decimals when necessary.

27) $\frac{1}{2}$

28) $\frac{1}{8}$

29) $\frac{2}{3}$

30) $\frac{1}{100}$

31) $2\frac{1}{10}$

32) $\frac{3}{8}$

33) $\frac{1}{10}$

34) $\frac{87}{100}$

Equivalent Fractions (B)

Instructions: Find the missing numbers in the equivalent fractions below.

$$\frac{\boxed{}}{3} = \frac{4}{6}$$

$$\frac{\boxed{}}{8} = \frac{8}{16}$$

$$\frac{4}{\boxed{}} = \frac{16}{44}$$

$$\frac{3}{\boxed{}} = \frac{9}{21}$$

$$\frac{1}{\boxed{}} = \frac{3}{6}$$

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

$$\frac{7}{12} = \frac{35}{\boxed{}}$$

$$\frac{2}{\boxed{}} = \frac{10}{50}$$

$$\frac{3}{\boxed{}} = \frac{15}{45}$$

$$\frac{6}{\boxed{}} = \frac{12}{18}$$

$$\frac{3}{12} = \frac{\boxed{}}{48}$$

$$\frac{4}{6} = \frac{20}{\boxed{}}$$

$$\frac{5}{8} = \frac{\boxed{}}{24}$$

$$\frac{1}{10} = \frac{4}{\boxed{}}$$

$$\frac{3}{7} = \frac{12}{\boxed{}}$$

$$\frac{2}{4} = \frac{8}{\boxed{}}$$

$$\frac{5}{\boxed{}} = \frac{15}{33}$$

$$\frac{4}{\boxed{}} = \frac{16}{20}$$

$$\frac{4}{\boxed{}} = \frac{20}{35}$$

$$\frac{4}{\boxed{}} = \frac{12}{18}$$

$$\frac{1}{2} = \frac{4}{\boxed{}}$$

$$\frac{\boxed{}}{5} = \frac{4}{10}$$

$$\frac{3}{\boxed{}} = \frac{12}{20}$$

$$\frac{\boxed{}}{3} = \frac{6}{9}$$