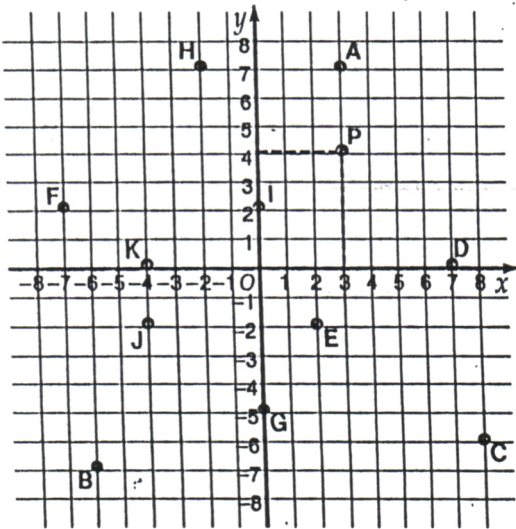


DAY 1 - Plotting Points on Coordinate System

Gx7-8

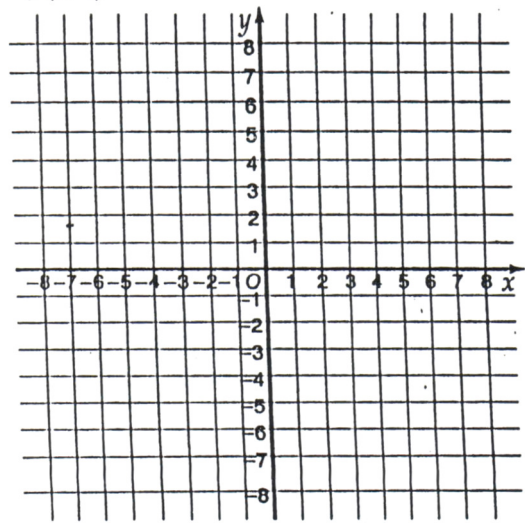
- | | | | | |
|-------------------|----------------|----------------|----------------|----------------|
| a | b | c | d | e |
| 1. E (____, ____) | B (____, ____) | H (____, ____) | K (____, ____) | C (____, ____) |
| 2. D (____, ____) | G (____, ____) | J (____, ____) | A (____, ____) | I (____, ____) |

3. Name the points from graph below in the spaces above

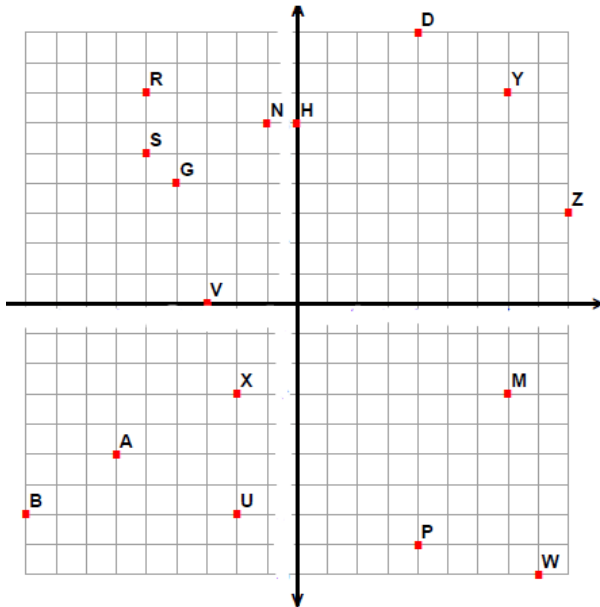


4. Plot the following, place label beside each point

F (-5, -8)
 G (0, 8)
 H (-8, 0)
 I (0, -7)
 J (0, 0)



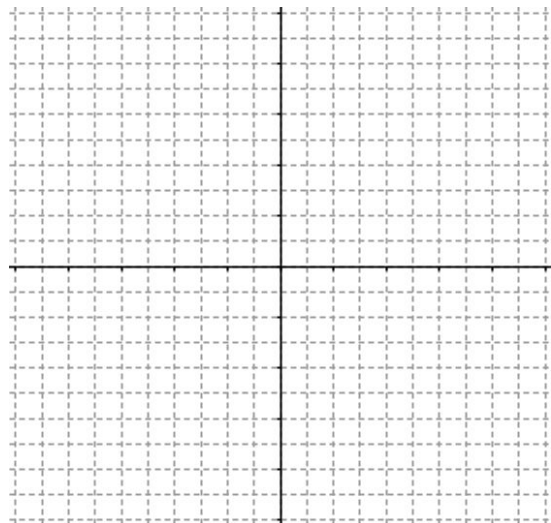
- 5.



Write the location of the coordinate points above

R _____	N _____	H _____
W _____	B _____	M _____
X _____	V _____	A _____
D _____	U _____	G _____

6. Label the coordinate system with x and y labels, skip count numbers so the legend is not too cluttered.

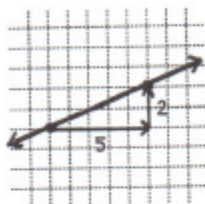


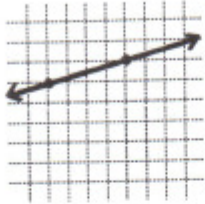
7. Plot the points on the above grid, use labels:

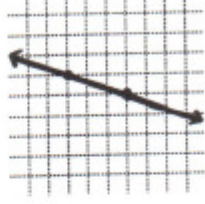
E (+7, -4) F (-6, -1) L (+5, -1)
 C (-8, +2) O (+6, +6) T (+3, -7)

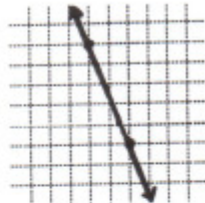
Slopes of Lines Gr.9

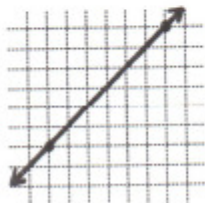
Find the slope of each line. Simplify the slope or write it as an integer if you can.



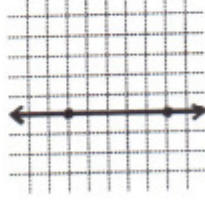


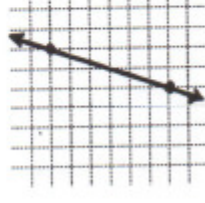




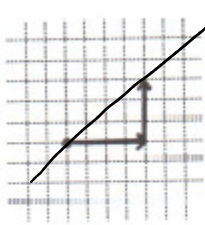




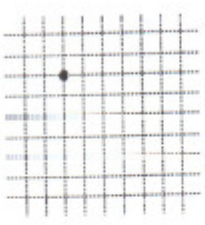




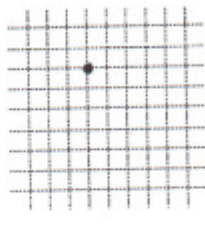
Through each point draw a line that has the slope shown below the grid. Use a ruler.



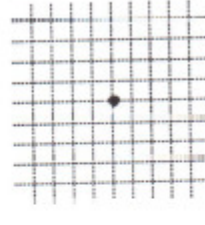
$\frac{3}{4}$



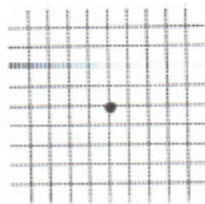
$-\frac{3}{4}$



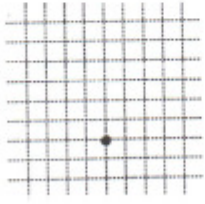
$-\frac{3}{2}$



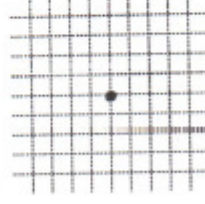
$\frac{3}{2}$



4° 4 equals $\frac{4}{1}$



$\frac{1}{3}$



-2



$\frac{1}{2}$

DAY 2 - Add & Subtract Integers – small numbers *Gr 7-8*

1. To use the number line you should remember that
 _____ are on the right side
 _____ are on the left side
2. The sign is always _____ to the number. Move terms around to show this:
 $-5 + 7$
 $-10 - 6 + 20$
3. When there are two signs acting on _____ number simplify the signs first:
 $-5 + (-2)$
 $-3 - (-6)$
 $-7 - (+3)$

(a) $-9 + 7 =$

(b) $-7 - 8 =$

(c) $0 + 2 =$

(d) $-6 - 8 =$

(e) $-1 - 8 =$

(f) $-8 + 2 =$

(g) $-2 + -8 =$

(h) $-1 + 8 =$

(i) $-5 + -5 =$

(j) $-1 + 7 =$

(k) $-9 + 5 =$

(l) $-6 - 7 =$

(m) $-10 - 10 =$

(n) $-5 + 1 =$

(o) $-2 + 5 =$

(p) $-1 - 6 =$

(q) $-9 - 10 =$

(r) $-1 + -7 =$

(s) $-5 + -1 =$

(t) $-2 + -9 =$

Now with bigger numbers

(a) $-28 + -27 =$

(b) $-22 - 29 =$

(c) $-17 + 18 =$

(d) $-12 + 2 =$

(e) $-16 + 12 =$

(f) $-13 + -10 =$

(g) $-12 + -13 =$

(h) $-27 - 28 =$

(i) $-15 + 0 =$

(j) $-24 - 29 =$

(k) $-14 - 15 =$

(l) $-15 + 16 =$

(m) $-14 + -10 =$

(n) $-28 + -9 =$

(o) $-16 + -9 =$

(p) $-21 + -26 =$

(q) $-22 + -1 =$

(r) $-12 + 10 =$

(s) $-24 + -22 =$

(t) $-21 - 30 =$

Find each sum.

1) $(-12) + 7$

2) $(-10) + (-7)$

3) $(-6) + 12$

4) $8 + 7$

5) $3 + 4$

6) $(-45) + 9$

7) $(-1) + (-46)$

8) $(-30) + 10$

9) $(-34) + 50$

10) $38 + (-5)$

Find each difference.

11) $2 - (-2)$

12) $(-1) - 10$

13) $8 - 7$

14) $(-8) - (-6)$

15) $11 - 4$

16) $48 - (-31)$

17) $18 - 41$

18) $(-38) - 30$

19) $(-1) - (-3)$

20) $(-1) - (-40)$

Evaluate each expression.

21) $(-10) - 47$

22) $(-29) - 29$

23) $13 + (-29)$

24) $38 + 22$

25) $(-32) - 44$

26) $(-12) + (-11)$

27) $2 + 15 + 4$

28) $16 + (-13) + 5$

29) $2 - (-9) - 8$

30) $10 + 3 - (-8)$

DAY 3 - Multiply and Divide Integers

Gr. 7-8

A

$-9 \times 8 =$

$3 \times 4 =$

$-4 \times 6 =$

$-7 \times 4 =$

$9 \times 6 =$

B

$6 \times -6 =$

$-7 \times -9 =$

$4 \times 2 =$

$7 \times -2 =$

$8 \times 2 =$

C

$-8 \times -7 =$

$-8 \times 8 =$

$-6 \times -9 =$

$-6 \times -8 =$

$4 \times 7 =$

D

$30 \div -6 =$

$54 \div 6 =$

$45 \div 5 =$

$-45 \div 5 =$

$-56 \div 7 =$

E

$15 \div -5 =$

$32 \div 4 =$

$-56 \div -7 =$

$24 \div -4 =$

$40 \div 8 =$

F

$-42 \div -6 =$

$12 \div -3 =$

$18 \div -6 =$

$36 \div 6 =$

$-49 \div 7 =$

Do Long Multiplication, without a calculator

Gr 5-6

1

$$\begin{array}{r} 1.83 \\ \times 83 \\ \hline \end{array}$$

2

$$\begin{array}{r} 2.42 \\ \times 9.7 \\ \hline \end{array}$$

3

$$\begin{array}{r} 414 \\ \times 6.8 \\ \hline \end{array}$$

4

$$\begin{array}{r} 84.6 \\ \times 4.7 \\ \hline \end{array}$$

5

$$\begin{array}{r} 7.56 \\ \times 67 \\ \hline \end{array}$$

6

$$\begin{array}{r} 542 \\ \times 6.7 \\ \hline \end{array}$$

Do long division, without a calculator

(A)

$$3 \overline{) 1183}$$

(B)

$$9 \overline{) 6858}$$

(C)

$$2 \overline{) 1146}$$

(D)

$$8 \overline{) 6514}$$

Mixed Practice

(1) $-11 \times 10 =$

(2) $22 - -9 =$

(3) $-120 \div 12 =$

(4) $-44 \div -11 =$

(5) $11 - 9 =$

(6) $8 - 1 =$

(7) $25 + 4 =$

(8) $-63 \div -7 =$

(9) $-156 \div 13 =$

(10) $5 \times -4 =$

(11) $6 \times 10 =$

(12) $-4 \times 3 =$

(13) $-8 \times 4 =$

(14) $5 - -1 =$

(15) $25 - -16 =$

(16) $11 \times 13 =$

(17) $8 \times -11 =$

(18) $-88 \div -8 =$

(19) $27 \div 9 =$

(20) $10 \times 7 =$

(21) $-11 \times -7 =$

(22) $4 \times 11 =$

(23) $-60 \div -6 =$

(24) $15 - -9 =$

DAY 4 - Fraction Basics**Gr. 7-8**

Convert to mixed fraction

(1) $\frac{17}{7} =$

(2) $\frac{11}{7} =$

(3) $\frac{5}{4} =$

(4) $\frac{15}{4} =$

(5) $\frac{7}{3} =$

(6) $\frac{8}{3} =$

(7) $\frac{7}{2} =$

(8) $\frac{11}{6} =$

(9) $\frac{8}{7} =$

(10) $\frac{12}{5} =$

(11) $\frac{19}{5} =$

(12) $\frac{13}{7} =$

Convert to improper fraction

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

b $2\frac{1}{3}$

c $3\frac{2}{5}$

d $2\frac{1}{2}$

e $3\frac{1}{5}$

f $1\frac{1}{3}$

g $2\frac{1}{2}$

h $3\frac{1}{2}$

i $3\frac{3}{5}$

j $3\frac{4}{5}$

k $2\frac{4}{5}$

l $3\frac{1}{2}$

Reduce

(1) $\frac{7}{21} =$

(2) $\frac{12}{16} =$

(3) $\frac{12}{30} =$

(4) $\frac{4}{8} =$

(5) $\frac{3}{12} =$

(6) $\frac{12}{21} =$

(7) $\frac{7}{35} =$

(8) $\frac{10}{15} =$

(9) $\frac{28}{35} =$

(10) $\frac{3}{18} =$

(11) $\frac{18}{30} =$

(12) $\frac{35}{42} =$

(13) $\frac{36}{42} =$

(14) $\frac{10}{14} =$

(15) $\frac{9}{21} =$

BEDMAS – order of operations Gr 7~8

Evaluate each expression.

1) $3(6 + 7)$

2) $5 \times 3 \times 2$

3) $72 \div 9 + 7$

4) $2 + 7 \times 5$

5) $9 + 8 - 7$

6) $9 - 32 \div 4$

7) $5(10 - 1)$

8) $48 \div (4 + 4)$

9) $20 \div (4 - (10 - 8))$

10) $40 \div 4 - (5 - 3)$

11) $9 + 9 + 6 - 5$

12) $(5 + 16) \div 7 - 2$

13) $7 + 10 \times 5 + 10$

14) $(6 + 25 - 7) \div 6$

15) $(6 - 4) \times 49 \div 7$

16) $(7 \times 5) \div 5$

17) $\frac{43 - 1}{4 + 2} + 10$

18) $(8 + 5) \times \frac{35}{5} + 6$

19) $\frac{27}{2 + 3 + 4} + 3$

20) $\frac{45}{8(5 - 4) - 3}$

21) $8 \times \frac{15}{5} - (5 + 9)$

22) $2 \times 7 - \frac{10}{9 - 4}$

23) $(10 + 2 - 2) \times 6 - 1$

24) $\frac{49}{7} \times \frac{60}{2 \times 5}$

25) $(2 + 6 \times 2 + 2 - 4) \times 2$

26) $\frac{8}{5 - 1} \times (3 + 6) \times 3$

DAY 5 - Multiply and Divide Fractions Gr 7-8

$$\textcircled{1} \frac{2}{3} \times \frac{3}{20} =$$

$$\textcircled{2} \frac{3}{4} \times \frac{16}{21} =$$

$$\textcircled{3} \frac{1}{10} \times 6 =$$

$$\textcircled{4} 2 \times \frac{3}{10} =$$

$$\textcircled{5} \frac{7}{10} \times 2\frac{1}{2} =$$

$$\textcircled{6} 1\frac{5}{6} \times \frac{3}{4} =$$

$$\textcircled{7} \frac{1}{4} \div \frac{3}{4} =$$

$$\textcircled{8} \frac{2}{3} \div \frac{4}{13} =$$

$$\textcircled{9} \frac{8}{15} \div 6 =$$

$$\textcircled{10} 5 \div \frac{1}{3} =$$

$$\textcircled{11} 4\frac{2}{15} \div \frac{2}{3} =$$

$$\textcircled{12} \frac{5}{6} \div 4\frac{9}{14} =$$

$$\textcircled{13} 2\frac{1}{2} \div 4\frac{1}{8} =$$

$$\textcircled{14} 3\frac{9}{10} \div 2\frac{3}{4} =$$

Collecting Like Terms

6, 7, 8

Simplify each expression.

1) $-6k + 7k$

2) $12r - 8 - 12$

3) $n - 10 + 9n - 3$

4) $-4x - 10x$

5) $-r - 10r$

6) $-2x + 11 + 6x$

7) $11r - 12r$

8) $-v + 12v$

9) $-8x - 11x$

10) $4p + 2p$

11) $5n + 11n$

12) $n + 4 - 9 - 5n$

Simplifying Expressions

13) $7(6x^2 + 9xy + 10y^2)$

14) $2u(6u^2 - 9uv + v^2)$

15) $9(x^2 + xy - 8y^2)$

16) $9v^2(u^2 + uv - 5v^2)$

Evaluate each expression

a) $m + p \div 5$; use $m = 1$, and $p = 5$

b)

$$2 \div ((9 - v + a) \div 4)$$

 $(a = 7, v = 8)$

c)

$p^2m \div 4$; use $m = 4$, and $p = 7$

d)

$$c^4 + 10 - 3 + v$$

 $(c = 2, v = 4)$