



*Grade 7 to 8  
Pre-Algebra 8 and  
Supplemental Math  
Review Packet  
Summer Use*



Fractions (adding, subtracting, multiplying, dividing) M07.A-N.1.1

- Add/Subtracting Fractions and Mixed Numbers
- Multiplying/Dividing Fractions and Mixed Numbers

Solving one step equations M07.A-N.1.1.2

- One-Step Equations With Integers

Solving multi-step equations M07.B-E.2.2.1

- Two-Step Equations With Integers

Distributive property with negatives M07.B-E.1.1.1

- The Distributive Property

Order of operations M07.A-N.1.1.3

- Order of Operations

Graphing ordered pairs on a coordinate plane M07.A-R.1.1.2

- Plotting Ordered Pairs
- Ordered Pairs II

## Add/Subtracting Fractions and Mixed Numbers

Date \_\_\_\_\_ Period \_\_\_\_\_

Evaluate each expression.

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

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

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

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

5)  $6 - \frac{1}{6}$

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

7)  $\frac{1}{5} + \frac{1}{5}$

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

9)  $\left(-\frac{4}{5}\right) - \frac{7}{8}$

10)  $\frac{1}{3} - \left(-\frac{5}{3}\right)$

11)  $\left(-\frac{1}{3}\right) + \frac{3}{8}$

12)  $\left(-\frac{10}{7}\right) + \frac{1}{6}$

13)  $\frac{9}{5} + \left(-\frac{4}{3}\right)$

14)  $2 - \frac{13}{8}$

15)  $\frac{9}{5} - \frac{5}{8}$

16)  $\left(-\frac{4}{3}\right) - \left(-\frac{3}{2}\right)$

17)  $(-1) + \left(-2\frac{2}{5}\right)$

18)  $\left(-3\frac{3}{5}\right) - 4\frac{2}{5}$

19)  $3\frac{6}{7} + \left(-1\frac{1}{7}\right)$

20)  $1\frac{2}{7} + \left(-3\frac{4}{7}\right)$

21)  $2\frac{1}{3} + \left(-1\frac{2}{3}\right)$

22)  $\left(-1\frac{3}{4}\right) + \left(-3\frac{3}{4}\right)$

23)  $\left(-1\frac{7}{8}\right) + \left(-3\frac{1}{2}\right)$

24)  $\left(-2\frac{7}{8}\right) + \left(-1\frac{1}{2}\right)$

25)  $\left(-2\frac{5}{6}\right) - \left(-1\frac{1}{4}\right)$

26)  $\left(-3\frac{5}{8}\right) - 4\frac{2}{5}$

27)  $1\frac{2}{5} - \left(-3\frac{3}{4}\right)$

28)  $2\frac{4}{5} - \frac{5}{8}$

## Multiplying/Dividing Fractions and Mixed Numbers

Find each product.

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

2)  $\frac{8}{7} \cdot \frac{7}{10}$

3)  $\frac{4}{9} \cdot \frac{7}{4}$

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

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

6)  $-2\frac{2}{3} \cdot 4\frac{1}{10}$

7)  $-2\frac{1}{5} \cdot -1\frac{3}{4}$

8)  $-1\frac{1}{4} \cdot 9$

9)  $-1\frac{5}{7} \cdot -2\frac{1}{2}$

10)  $-2\frac{3}{8} \cdot 2\frac{1}{2}$

Find each quotient.

$$11) \frac{-1}{5} \div \frac{7}{4}$$

$$12) \frac{-1}{2} \div \frac{5}{4}$$

$$13) \frac{-3}{2} \div \frac{-10}{7}$$

$$14) \frac{1}{2} \div \frac{8}{7}$$

$$15) \frac{-9}{5} \div 2$$

$$16) -3\frac{5}{9} \div 3$$

$$17) -2 \div -3\frac{4}{5}$$

$$18) \frac{1}{9} \div -1\frac{1}{3}$$

$$19) 1\frac{6}{7} \div 5\frac{3}{4}$$

$$20) -3\frac{7}{10} \div 2\frac{1}{4}$$

## One-Step Equations With Integers

Solve each equation.

1)  $v - 10 = -9$

2)  $v - 10 = -3$

3)  $x - 3 = 4$

4)  $\frac{x}{5} = 2$

5)  $22 = -11k$

6)  $-13m = -377$

7)  $b - 7 = -1$

8)  $-8 = p - 13$

9)  $-40 = -5p$

10)  $418 = -22a$

11)  $\frac{a}{29} = 5$

12)  $-2 = \frac{m}{16}$

13)  $x - 11 = 16$

14)  $-10 = x - 21$

$$15) 20 = \frac{n}{4}$$

$$16) n - 29 = -53$$

$$17) -19 = b - 6$$

$$18) -8 = -16 + n$$

$$19) -9 + x = -26$$

$$20) 29 + n = 13$$

$$21) 21 = \frac{x}{18}$$

$$22) k + 1 = -27$$

$$23) 6 = m - 16$$

$$24) 5 = v + 29$$

$$25) 168 = -84n$$

$$26) 41k = -2747$$

$$27) \frac{x}{15} = 11$$

$$28) -71 = \frac{x}{64}$$



## Two-Step Equations With Integers

Solve each equation.

1)  $\frac{r}{10} + 4 = 5$

2)  $\frac{n}{2} + 5 = 3$

3)  $3p - 2 = -29$

4)  $1 - r = -5$

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

6)  $\frac{n-5}{2} = 5$

7)  $-9 + \frac{n}{4} = -7$

8)  $\frac{9+m}{3} = 2$

9)  $\frac{-5+x}{22} = -1$

10)  $4n - 9 = -9$

11)  $\frac{x+9}{2} = 3$

12)  $\frac{-12+x}{11} = -3$

13)  $\frac{-4+x}{2} = 6$

14)  $-5 + \frac{n}{3} = 0$

$$15) \frac{p}{4} + 8 = 7$$

$$16) 9 + \frac{n}{4} = 15$$

$$17) 6 + \frac{x}{2} = 4$$

$$18) \frac{b+11}{3} = -2$$

$$19) \frac{a-10}{3} = -4$$

$$20) -12r + 4 = 100$$

$$21) \frac{m}{16} - 9 = -8$$

$$22) -7 + 4r = -15$$

$$23) \frac{m-13}{2} = -8$$

$$24) -5x + 13 = -17$$

$$25) \frac{k+10}{-2} = 5$$

$$26) \frac{p+8}{-2} = 10$$

$$27) -14r - 19 = 303$$

$$28) \frac{x}{-4} - 5 = -8$$

## The Distributive Property

Simplify each expression.

1)  $6(1 - 5m)$

2)  $-2(1 - 5v)$

3)  $3(4 + 3r)$

4)  $3(6r + 8)$

5)  $4(8n + 2)$

6)  $-(-2 - n)$

7)  $-6(7k + 11)$

8)  $-3(7n + 1)$

9)  $-6(1 + 11b)$

10)  $-10(a - 5)$

11)  $-3(1 + 2v)$

12)  $-4(3x + 2)$

13)  $(3 - 7k) \cdot -2$

14)  $-20(8x + 20)$

15)  $(7 + 19b) \cdot -15$

16)  $(x + 1) \cdot 14$

## Order of Operations

**Evaluate each expression.**

1)  $(30 - 3) \div 3$

2)  $(21 - 5) \div 8$

3)  $1 + 7^2$

4)  $5 \times 4 - 8$

5)  $8 + 6 \times 9$

6)  $3 + 17 \times 5$

7)  $7 + 12 \times 11$

8)  $15 + 40 \div 20$

9)  $20 + 16 - 15$

10)  $19 - 15 - 3$

11)  $9 \times (3 + 3) \div 6$

12)  $(9 + 18 - 3) \div 8$

$$13) 9 + 6 \div (8 - 2)$$

$$14) 4(4 \div 2 + 4)$$

$$15) 6 + (5 + 8) \times 4$$

$$16) 6 \times 6 - (7 + 5)$$

$$17) (9 \times 2) \div (2 + 1)$$

$$18) 2 - (4 + 3 - 6)$$

$$19) 7 \times 7 - (8 - 2)$$

$$20) 9 - 7 - 6 \div 6$$

$$21) (4 - 1 + 8 \div 8) \times 5$$

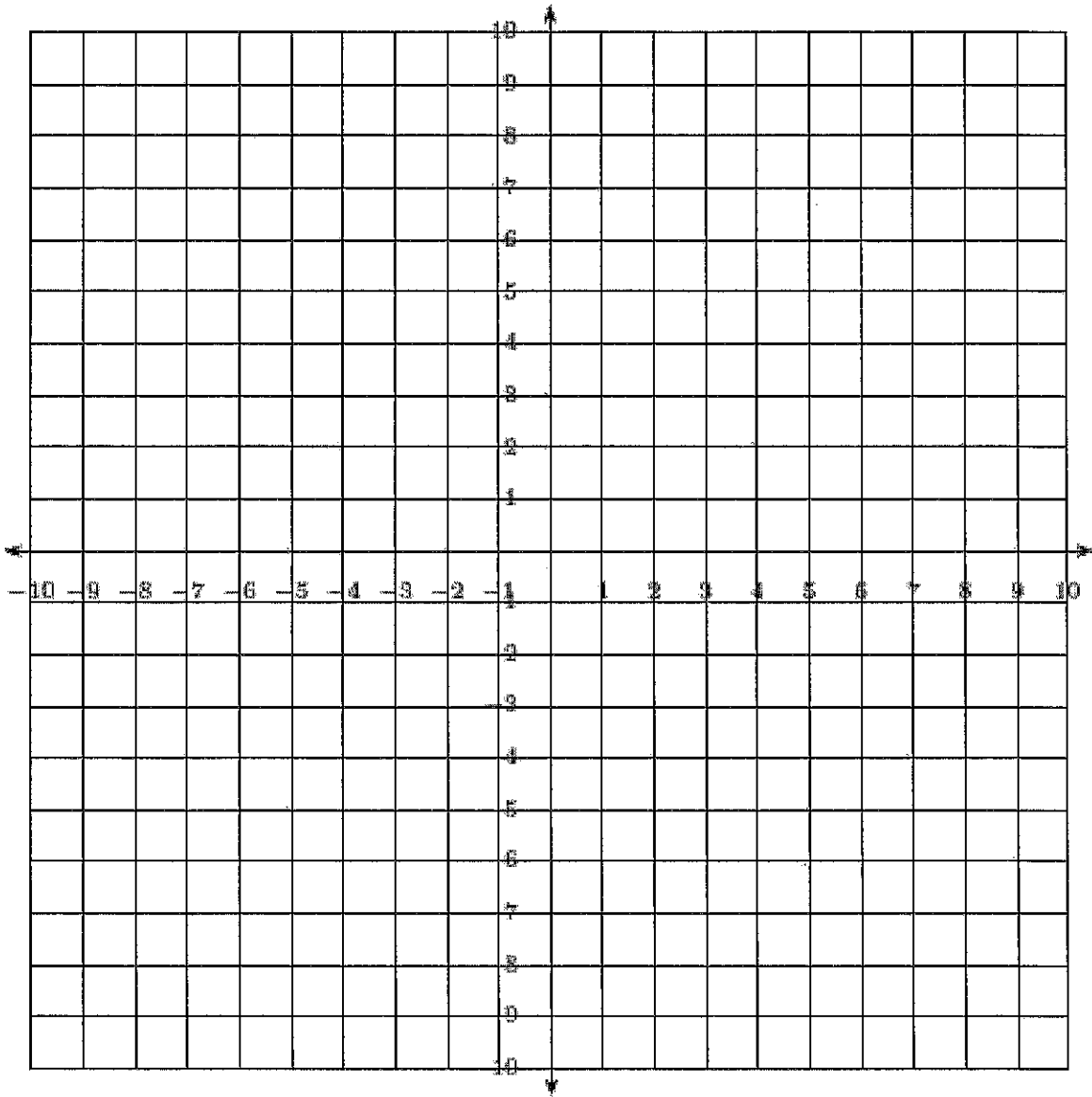
$$22) (10 \times 2) \div (1 + 1)$$

$$23) 7 \times 9 - 7 - 3 \times 5$$

$$24) 8 - 1 - (18 - 2) \div 8$$

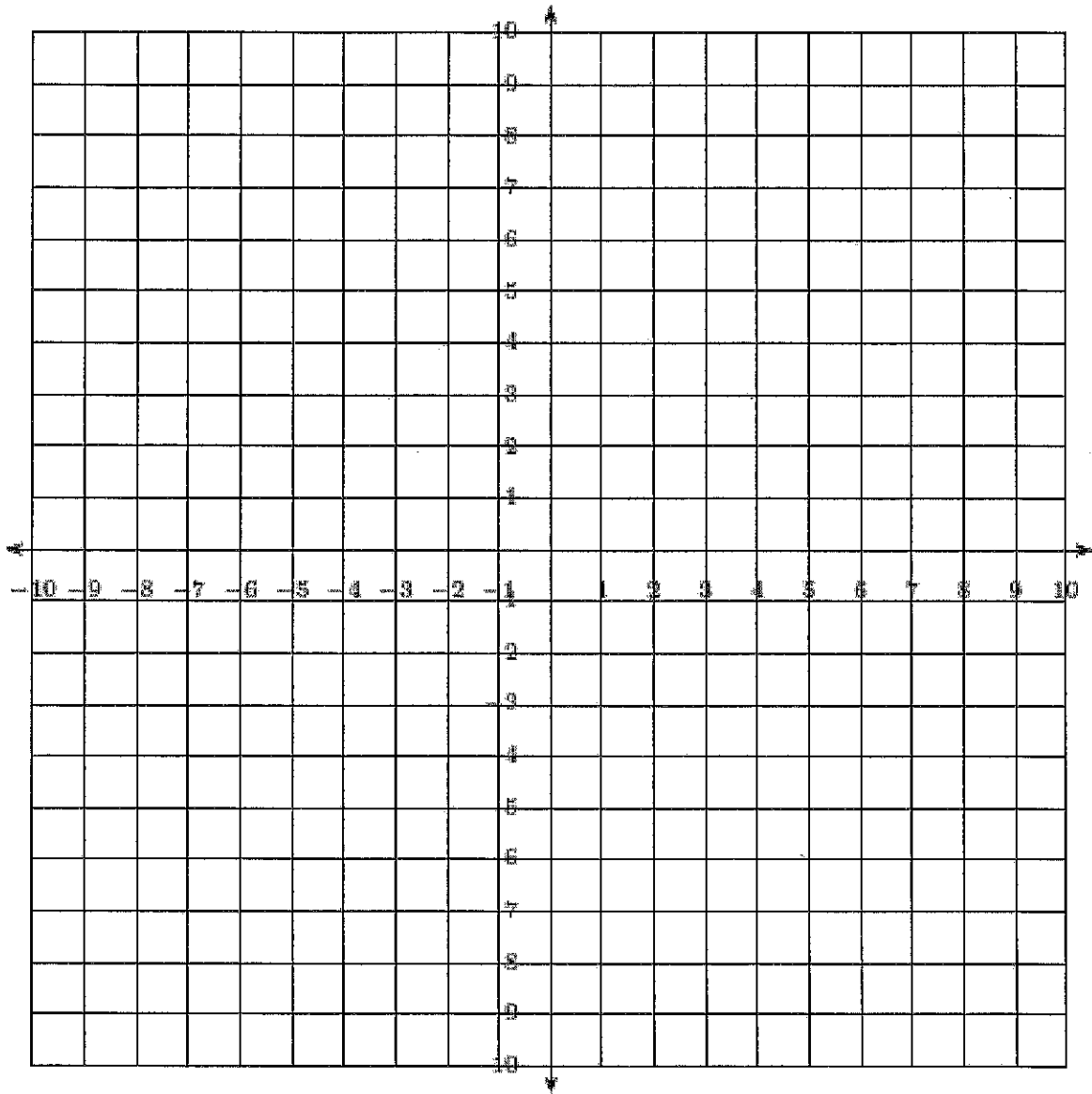
Plot the Order Pairs

1.



- |              |              |               |               |               |
|--------------|--------------|---------------|---------------|---------------|
| A. $(3, -6)$ | B. $(-7, 0)$ | C. $(-4, 8)$  | D. $(9, 0)$   | E. $(4, 9)$   |
| F. $(-7, 3)$ | G. $(0, 9)$  | H. $(7, 7)$   | I. $(-6, -2)$ | J. $(0, -6)$  |
| K. $(6, -5)$ | L. $(-5, 7)$ | M. $(-4, -5)$ | N. $(9, -1)$  | O. $(3, 1)$   |
| P. $(8, -3)$ | Q. $(9, 1)$  | R. $(8, 5)$   | S. $(7, 1)$   | T. $(-2, -6)$ |

2.



- |           |            |            |             |            |
|-----------|------------|------------|-------------|------------|
| A. (8,3)  | B. (4,-6)  | C. (-3,2)  | D. (-5,-7)  | E. (7,4)   |
| F. (7,-4) | G. (-3,-2) | H. (-8,-4) | I. (6,-2)   | J. (9,9)   |
| K. (2,-6) | L. (10,4)  | M. (0,0)   | N. (3,2)    | O. (-1,-2) |
| P. (-4,2) | Q. (-6,-3) | R. (8,-8)  | S. (-10,-5) | T. (-9,4)  |