

Add/Subtracting Fractions and Mixed Numbers

Date_____Period___

Evaluate each expression.

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

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

3)
$$\frac{2}{5} + \frac{4}{5} = \frac{2.44}{5}$$

4)
$$\frac{1}{3} - \frac{1}{3} = \frac{1}{3} = \frac{6}{3} = 6$$

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

= $\frac{36}{6} - \frac{1}{6} = \frac{85 \text{ or } 5\frac{5}{6}}{6}$

6)
$$\frac{1}{2} - \frac{1}{2} = \frac{1}{2} = \frac{9}{2} = \frac{9}{2}$$

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

$$8)\frac{7}{6} - \frac{5}{6} = \frac{7-5}{6} = \frac{2}{6} = \frac{3}{3}$$

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

= $\frac{-32}{40} - \frac{35}{40} = \frac{-32 - 35}{40} = \left(-\frac{67}{40} \text{ or } -1\frac{27}{40}\right)$

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

= $\frac{27}{15} + \frac{-20}{15} = \frac{27 + 20}{15} = \sqrt{\frac{7}{15}}$

$$10) \frac{1}{3} - \left(-\frac{5}{3}\right) = \frac{1}{3} \frac{65}{13} = \frac{1}{3} + \frac{5}{3}$$

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

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

= $\frac{-60}{42} + \frac{7}{42} = \frac{-60 + 7}{42} = \frac{-53}{42} = \frac{-111}{42}$

$$14) 2 - \frac{13}{8} = \frac{2}{1} - \frac{13}{8} = \frac{2 \times 8}{1 \times 8} - \frac{13}{8}$$

$$= \frac{16}{8} - \frac{13}{8} = \frac{16 - 13}{8} - \frac{3}{8}$$

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15)
$$\frac{9}{5} - \frac{5}{8} = \frac{9 \cdot 8}{5 \cdot 8} - \frac{5 \cdot 8}{8 \cdot 8} = \frac{72}{40} - \frac{25}{40}$$

$$= \frac{72 - 25}{40} = \frac{47}{40} \text{ or } | \frac{7}{40}|$$

$$16) \left(-\frac{4}{3}\right) - \left(-\frac{3}{2}\right) = \frac{-4}{3} + \frac{9}{6} = \frac{-8}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} + \frac{9}{6} = \frac{9}{6} + \frac{9}{6} +$$

Convert perfection
to improper 17)
$$(-1) + (-2\frac{2}{5}) = -\frac{1}{7} + \frac{12}{5} = \frac{-1 \times 5}{1 \times 5} + \frac{12}{5}$$

$$02\frac{2}{5} = \frac{5(-2)-2}{5}$$

$$02\frac{2}{5} = \frac{5(-2)-2}{5}$$

$$02\frac{2}{5} = \frac{5(-2)-2}{5}$$

$$02\frac{2}{5} = \frac{5(-2)-2}{5}$$

$$03\frac{2}{5} = \frac{5}{5} + \frac{12}{5} = \frac{-5}{5} + \frac{12}{5} = \frac{-7}{5} = \frac{17}{5} = \frac{17}{5}$$

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

2) $= \frac{15+3}{5} = \frac{20+2}{5} = \frac{18}{5} = \frac{22}{5}$

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

= $3 - 1 + \frac{1}{7} - \frac{1}{7}$
= $2 + \frac{6}{7} = 2 + \frac{5}{7} = 2 + \frac{5}{7}$

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

= $1 - 3 + \frac{2}{7} - \frac{4}{7} = -2 + \frac{2-4}{7}$
= $-2 + \frac{2}{7} = -2 + \frac{2-4}{7}$

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

 $2 - 1 + \frac{1}{3} - \frac{2}{3} = 1 + \frac{1}{3} = 1 + \frac{7}{3}$
 $= \frac{3}{3} - \frac{1}{3} = \frac{2}{3}$

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

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

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

$$= \frac{\left(\frac{8+7}{8}\right) - \left(\frac{6+1}{2}\right) - \frac{15}{8} - \frac{7}{2} - \frac{15}{8} - \frac{7}{2} \times 4$$

$$= -\frac{15}{8} - \frac{29}{8} - \frac{15-28}{8} - \frac{7}{2} \times 4$$

$$= -\frac{15}{8} - \frac{29}{6} - \left(-1\frac{1}{4}\right) = -\frac{17}{8} - \frac{17}{8} \times \frac{2}{8} \times \frac{17}{4} \times \frac{2}{4} \times \frac{17}{4} \times \frac{17}{$$

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

$$= -\left(\frac{16+7}{8}\right) - \left(\frac{2+1}{2}\right) = -\frac{23}{8} - \frac{3}{2} = \frac{-23}{8} - \frac{3}{2} \times 4$$

$$= -\frac{23}{8} - \frac{12}{8} = -\frac{23-12}{8} = \frac{-35}{8} \text{ or } -4\frac{3}{8}$$

$$= -\frac{3!}{5!} + \frac{15}{5} = -\frac{3!}{12} + \frac{15}{5} = -\frac{19}{12} = -\frac{17}{12}$$

$$= -\frac{3!}{5} + \frac{15}{5} = -\frac{3!}{4} = \left(\frac{5(1)+2}{5}\right) + \frac{4!}{5!} \left(\frac{4(3)+3}{4}\right)$$

$$= \frac{5+2}{5!} + \frac{12+3}{4!} = \frac{7}{5!} + \frac{15}{4!} = \frac{7 \times 1}{5 \times 4!} + \frac{15 \times 5}{4 \times 5}$$

$$= \frac{28}{20} + \frac{75}{20} = \frac{103}{20} \times 5\frac{3}{20}$$

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

$$= -\left(\frac{24+5}{8}\right) - \left(\frac{20+2}{5}\right) = -\frac{29}{8} - \frac{22}{5}$$

$$= -\frac{29}{8} \times 5 - \frac{22\times8}{5\times8} - \frac{145}{40} - \frac{176}{40} + \frac{-321}{40} \text{ or } -8\frac{1}{40}$$

$$28) 2\frac{4}{5} - \frac{5}{8} = \left(\frac{5(2)+4}{5}\right) - \frac{5}{8} = \frac{10+4}{5} \cdot \frac{5}{8}$$

$$= \frac{14}{5} \cdot -\frac{5}{8} = \frac{14\times8}{5\times8} - \frac{5\times5}{8\times5} = \frac{112}{40} - \frac{25}{40}$$

Multiplying/Dividing Fractions and Mixed Numbers

Date______Period____

Find each product.

1)
$$-\frac{5}{4} \cdot \frac{1}{3} = \frac{-5}{4} \times \frac{1}{3} = \frac{-5 \times 1}{4 \times 3} = \left(\frac{-5}{12}\right)$$

2)
$$\frac{8}{7} \cdot \frac{7}{10} = \frac{8}{7} \times \frac{7}{10} = \frac{4 \times 1}{1 \times 5} = \frac{4 \times 1}{5}$$

3)
$$\frac{4}{9} \cdot \frac{7}{4} = \frac{\cancel{4}}{9} \times \frac{7}{\cancel{4}} = \frac{\cancel{1} \times 7}{\cancel{9} \times \cancel{1}} \cdot \frac{\cancel{7}}{\cancel{9}}$$

4)
$$-\frac{2}{3} \cdot \frac{5}{4} = \frac{-1}{3} \cdot \frac{5}{\cancel{4}} = \frac{-1 \times 5}{\cancel{5} \times 2} = \frac{-5}{\cancel{6}}$$

5)
$$-2 \cdot \frac{3}{7} = -\frac{2}{1} \times \frac{3}{7} = -\frac{2 \times 3}{1 \times 7} = -\frac{6}{7}$$

6)
$$-2\frac{2}{3} \cdot 4\frac{1}{10} = -\left(\frac{3(2)+2}{3}\right) \times \left(\frac{10(4)+1}{10}\right)$$

$$= -\left(\frac{6+2}{3}\right) \times \left(\frac{40+1}{10}\right) = -\frac{8}{3} \times \frac{41}{10}$$

$$= -\frac{8}{3} \times \frac{41}{10} = -\frac{41}{3} \times \frac{41}{1$$

7)
$$-2\frac{1}{5} \cdot -1\frac{3}{4} = -\left(\frac{501+1}{5}\right) \times -\left(\frac{4(1)+3}{4}\right)$$

= $-\left(\frac{10+1}{5}\right) \times -\left(\frac{4+3}{4}\right) = -\frac{11}{5} \times -\frac{7}{4}$
= $\frac{611 \times 67}{5 \times 4} = \frac{77}{20} = \frac{317}{320}$

8)
$$-1\frac{1}{4} \cdot 9 = -\left(\frac{4(1)+1}{4}\right) \times \frac{9}{9} = -\left(\frac{4+1}{4}\right) \times \frac{9}{1}$$

$$= -\frac{5}{4} \times \frac{9}{1} = -\frac{5}{4} \times \frac{9}{1} = -\frac{5}{4} \times \frac{9}{1} = -\frac{1}{4} \times \frac{$$

9)
$$-1\frac{5}{7} \cdot -2\frac{1}{2} = -(7(1)+5) \times (2(2)+1)$$

= $-(\frac{7+5}{7}) \times -(\frac{4+1}{2}) = -\frac{12}{7} \times \frac{5}{2}$
= $-\frac{7}{7} \times \frac{-5}{2} \times \frac{-5}{7} \times \frac{$

$$10) -2\frac{3}{8} \cdot 2\frac{1}{2} = -\left(\frac{8(2)+3}{8}\right) \times \left(\frac{2(2)+1}{2}\right)$$

$$= -\left(\frac{10+3}{8}\right) \times \left(\frac{4+11}{2}\right) = -\frac{19}{8} \times \frac{5}{2}$$

$$= -\frac{19}{8} \times \frac{5}{2} = -\frac{95}{16} \text{ or } -5 \times \frac{15}{16}$$

Find each quotient.

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

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

$$= \frac{-1}{1} \times \frac{2}{5} = \frac{-2}{5}$$

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

$$= \frac{-21}{-20} = \frac{621}{620} - \frac{21}{20} \text{ or } |\frac{1}{20}|$$

14)
$$\frac{1}{2} \div \frac{8}{7} = \frac{1}{2} \times \frac{7}{8} = \frac{1 \times 7}{2 \times 8} = \frac{7}{6}$$

$$15) \frac{-9}{5} \div 2 = \frac{9}{5} \times \frac{1}{5} = \frac{-9}{10}$$

$$16) -3\frac{5}{9} \div 3 = -\left(\frac{9(3)+5}{9}\right) \div \frac{3}{1}$$

$$= -\left(\frac{27+5}{9}\right) \div \frac{3}{1} = \frac{-32}{9} \times \frac{1}{3} = \frac{-32\times1}{9\times3} = \frac{-32\times1}{9\times3} = \frac{-32\times1}{27} \times \frac{1}{27} \times \frac{1$$

$$17) -2 \div -3\frac{4}{5} = \frac{-2}{7} \div -\left(\frac{5(3)+4}{5}\right)$$

$$= \frac{-2}{7} \div -\left(\frac{15+44}{5}\right) = \frac{-2}{7} \div -\frac{19}{5}$$

$$= \frac{-2}{7} \times \frac{5}{-19} = \frac{-2\times 5}{1\times -19} = \frac{10}{19}$$

$$18) \frac{1}{9} \div -1\frac{1}{3} = \frac{1}{9} \div \left(\frac{3(1)+1}{3}\right)$$

$$= \frac{1}{9} \div \left(\frac{3+1}{3}\right) = \frac{1}{9} \div \frac{4}{3}$$

$$= \frac{1}{9} \times \frac{3}{-4} = \frac{1\times 3}{9\times -4} = \frac{3}{-36} \div \left(\frac{1}{12}\right)$$

19)
$$1\frac{6}{7} \div 5\frac{3}{4} = \left(\frac{7(1)+6}{7}\right) \div \left(\frac{4(5)+3}{4}\right)$$

= $\frac{7+6}{7} \div \frac{20+3}{4} = \frac{13}{7} \div \frac{23}{4} = \frac{13}{7} \times \frac{4}{23}$
= $\frac{13}{7} \times \frac{4}{7} = \frac{62}{161}$

$$20) -3\frac{7}{10} \div 2\frac{1}{4} = -\left(\frac{10(3)+7}{10}\right) \div \left(\frac{4(2)+1}{4}\right)$$

$$= -\left(\frac{30+7}{10}\right) \div \left(\frac{8+1}{4}\right) = -\frac{37}{10} \div \frac{9}{4}$$

$$= \frac{37}{10} \times \frac{4}{9} = \frac{-37}{5} \times \frac{4}{9} = \frac{-37\times2}{5\times9}$$

$$= \left(-\frac{74}{45}\right) \times \frac{29}{45}$$

One-Step Equations With Integers

Solve each equation.

1)
$$v - 10 = -9$$

+10 +10

3)
$$x-3=4$$
+3+3
 $(x=7)$

5)
$$22 = -11k$$
 $\rightarrow -11k = 22$
 $= -11$ $= -11$
 $= -11$

7)
$$b-7=-1$$
 $(6=6)$

9)
$$-40 = -5p$$
 -> $-5p = -40$
 $\div -5$ $\div -5$
 $p = \frac{640}{55} = \frac{8}{5}$

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

$$a = 145$$

13)
$$x-11=16$$

+ 11 + 11
 $x=27$

2)
$$v - 10 = -3$$

+ 10 + 0

4)
$$\frac{x}{5} = 2$$
 $x_5 = 2 \times 5$ $x_5 = 10$

6)
$$-13m = -377$$
 $-13m = -377$ $= -13$ $= -13$ $= -13$ $= -13$ $= -13$ $= -13$

8)
$$-8 = p - 13$$
 \rightarrow $p - 13 = -8$
 $+13 + 13$

10)
$$418 = -22a$$
 $-22a = 418$ $-22 = -22$ -22 -22 -22 -22 -22

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

14)
$$-10 = x - 21$$
 -> $\chi - 21 = -10$
 $\chi = 11$

15)
$$20 = \frac{n}{4}$$
 \longrightarrow $\times \frac{n}{4} = 20 \times 4$ $(n = 80)$

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

 $+29$ $+29$
 $n=-24$

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

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

19)
$$-9 + x = -26$$
 $\rightarrow \chi - 9 = -26$ $\rightarrow 49$ $\rightarrow 49$

20)
$$29 + n = 13$$
 $\rightarrow n + 29 = 13$
 $-29 - 29$
 $(n = -16)$

21)
$$21 = \frac{x}{18}$$
 $\frac{\chi}{18} = 21 \times 18$ $\chi = 378$

22)
$$k+1=-27$$
 -1
 $k=-28$

23)
$$6 = m - 16$$
 $m - 16 - 6$ $m = 22$

24)
$$5 = v + 29$$
 more $\sqrt{+29} = 5$ $\sqrt{-29}$ $\sqrt{-29}$

25)
$$168 = -84n$$
 \longrightarrow $-84n = 168$ $= 84$ $= 84$ $= -84$ $= -84$

26)
$$41k = -2747$$

$$-2747$$

$$-41k - 2747$$

$$-41$$

$$-2747 - 67$$

27)
$$\frac{x}{15} = 11$$
 \times 15 $\frac{x}{15} = 11 \times 15$ \times 165

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

$$\frac{x}{64} - 71 \times 64$$

$$\frac{x}{64} - 4544$$

$$\frac{x}{64} - 4544$$

$$\frac{x}{64} - 4544$$

Name____

Date______Period___

Two-Step Equations With Integers

Solve each equation.

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

$$x^{10} = \frac{r}{10} = 1 \times 10$$

$$r = 10$$

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

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

 $+9$
 $\frac{n}{4} = 2$
 $x + \frac{n}{4} = 2 \times 4$
 $\frac{n}{4} = 2$

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

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

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

 $x^{2} = 3 \times 2$
 $x^{2} = 3 \times 2$
 $x^{2} = 3 \times 2$

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

$$x_2 = \frac{4+x}{2} = 6$$

$$-4+x = 12$$

$$+4$$

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

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

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

$$\frac{n}{2} = -2$$

$$2 = -2 \times 2$$

$$2 = -2 \times 2$$

$$3 = -4$$

$$4) \cdot 1 - r = -5$$

$$5 - r + 1 = -5$$

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

$$6) \frac{n-5}{-1} = 5 \implies 2 \cdot n^{-5} = 5 \times 2$$

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

10)
$$4n-9=-9$$
 $+9$
 $+9$
 $+9$
 -4
 -6

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

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

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

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

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

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

+5
 $\frac{\Omega}{3} = 5$
 $\times 3 \frac{\Omega}{3} = 5 \times 3$
 $\frac{\Omega}{3} = 5 \times 3$

15)
$$\frac{P}{4} + 8 = 7$$
 $4 \cdot 8 - 8$
 $\times 4$
 $\frac{P}{4} = 1 \times 64$
 $\frac{A}{4} = 4$

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

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

$$x^{2}, \alpha^{-10} = -4 \times 3$$

$$\alpha^{-10} = -12$$

$$+10$$

$$+10$$

$$0$$

$$0$$

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

$$m = 1 \times (1 + 16)$$

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

$$x_2 \frac{M-13}{2} = -8 \times 2$$
 $m-13 = -16 = -3$
 $+13 = +13 = -3$

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

$$x-2$$
 $\frac{k+10}{2} = 5 \times 2$
 $\frac{-2}{2}$
 $\frac{-10}{2}$
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$$\frac{-14r - 19 = 303}{+19 + 19}$$

$$\frac{-14r = 322}{-14 + 19}$$

$$\frac{-14r = 322}{-14 + 19}$$

16)
$$9 + \frac{n}{4} = 15$$
 -9
 $+ \frac{6}{4} = \frac{6}{4} + \frac{15}{6} = \frac{6}{4} + \frac{15}{6} = \frac{15}{4} + \frac{15}{6} = \frac{15$

18)
$$\frac{b+11}{3} = -2 \longrightarrow \chi_3' \frac{b+11}{3} = -2 \times 3$$

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

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

 $-(3) -13$
 $-5x = -30$
 $x = -30 = 6$

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

$$x^{-4} = \frac{x}{4} = \frac{-3}{4} = \frac{x^{-4}}{2}$$

Date Period

The Distributive Property

Simplify each expression.

1)
$$6(1-5m) = 1 \times 6 - 5m \times 6$$

 $(6-30m)$

3)
$$3(4+3r) = 4(3) + 3r(3)$$

5)
$$4(8n+2) = 8n(4) + 2(4)$$

= $32n + 8$

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

= $(-42k-66)$

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

= $(-6-60b)$

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

= $(-3-6v)$

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

= $3(-2)-7k(-2)$
= $(-2)+14k$

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

= $7(-15)+(9b)(5)$
 $(-105+285b)$

$$2) -2(1-5\nu) = 1 \times -2 - 5 \times -2$$

4)
$$3(6r+8) = (r(3)+8(3))$$

6)
$$-(-2-n)$$
 = $-2(-1)$ - $n(-1)$ = $-2(-1)$ - $n(-1)$

8)
$$-3(7n+1) = \frac{7n(-3)+1(-3)}{(-21n-3)}$$

10)
$$-10(a-5) = a(-10) - 5(-10)$$

= $(-10a + 50)$

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

$$= (-12x - 8)$$

$$14) -20(8x+20) = 8 \times (-20) + 20(-20)$$

$$= (-160 \times -400)$$

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

= $x(14) + 1(14)$
= $(4x+14)$

Date_____Period___

Order of Operations

Evaluate each expression.

1)
$$(30-3) \div 3 = 27 \div 3 = 9$$

2)
$$(21-5) \div 8 = 16 \div 8 = 6$$

3)
$$1+7^2 = 1 + (717)$$

= $1+49 = 60$

4)
$$5 \times 4 - 8 = 20 - 8 = (12)$$

5)
$$8+6\times9 = 8+54 = 62$$

6)
$$3 + 17 \times 5 = 3 + 85 = 88$$

7)
$$7 + 12 \times 11 = 7 + 132 = (139)$$

8)
$$15 + 40 \div 20 = 15 + 2 = 17$$

9)
$$20+16-15 = 36-15=21$$

10)
$$19-15-3 = 4-3 = 1$$

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

 $9 \times (6) \div 6$
 $5 + \div 6 = 9$

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

 $(27-3) \div 8$
 $24 \div 8 = 3$

13)
$$9+6\div(8-2) = 9+6\div6$$

= $9+1\div(8)$

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

= $(6+13) \times 4$
= $(6+5) = (68)$

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

= $(8 \div (2 + 1))$
= $(8 \div 3) = (6)$

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

= $7 \times 7 - 6$
= $49 - 6 = 43$

21)
$$(4-1+8\div8)\times5$$

 $(4-1+1)\times5$
 $(3+1)\times5$
 $+\times5$

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

$$= 63 - 7 - 3 \times 5$$

$$= 63 - 7 - 3 \times 5$$

$$= 63 - 7 - 5 = 41$$

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

$$= 6 \times 6 - (12)$$

$$= 3 \times 6 - (12)$$

$$= (24)$$

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

2 $2 = (2 - 6)$

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

= $20 \div (1+1)$
= $20 \div 2 \div (9)$

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

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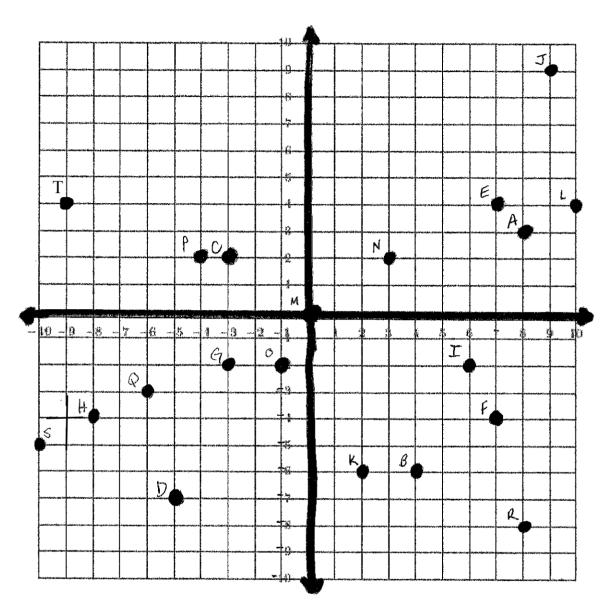
- A. (3,-6)
- B. (-7,0)
- C. (-4,8)
- D. (9,0)
- E. (4,9)

- F. (-7,3)
- G. (0,9)
- H. (7,7)
- 1. (-6, -2)
- J. (0, -6)

- K. (6,-5)
- L. (-5,7)
- M. (-4, -5)
- N. (9, -1)
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- Q. (9,1)
- R. (8,5)
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 O. $(-1,-2)$

$$P(-42)$$

$$R. (8, -8)$$

T.
$$(-9.4)$$