

## Remote Learning Packet

*There is no need to submit this packet at the end of the week. Enjoy your summer break!*

### **Week 9: May 25-29, 2020**

**Course:** 7th Grade Pre-Algebra

**Teacher(s):** Mrs. Frank [leslie.frank@greatheartsirving.org](mailto:leslie.frank@greatheartsirving.org)

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### **Monday, May 25**

Happy Memorial Day! No School!

### **Tuesday, May 26 - Friday May 29**

No speed tests this week! (Although if you want to keep doing them all summer just to improve your skills for next year, we would not object...)

Cumulative Review, pp. 436-437, Exercises, 2-38, even, and Problems, 2-8, even

After you complete the review, you may look at the answer key to check your solutions.

NOTE: You will NOT need to scan your answers or return this assignment in any way. Have a fabulous summer! We look forward to seeing you all in the fall!

# Pre-Algebra, WEEK NINE!, May 26-29th

Cumulative Review, pp. 436-437, Exercises 2-30, even & Problems, 2-8, even

$$2. \frac{16+9}{32+B} = \frac{25}{40} = \boxed{\frac{5}{8}}$$

$$4. 4x - 0 + xy + 3y = \boxed{4x + xy + 3y}$$

$$6. 3p^2(p+5) = \boxed{3p^3 + 15p^2}$$

$$8. \frac{8}{11} - \frac{1}{3} =$$

$$\frac{8}{11} \cdot \frac{3}{3} = \frac{24}{33}$$

$$- \frac{1}{3} \cdot \frac{11}{11} = -\frac{11}{33}$$

$$\boxed{\frac{13}{33}}$$

$$10. -1\frac{1}{2} \div -2\frac{1}{2} =$$

$$-\frac{3}{2} \div -\frac{5}{2} = -\frac{3}{2} \times \frac{2}{5} = \boxed{\frac{3}{5}}$$

$$12. \begin{array}{r} -3 - 7 = x + 1 \\ -10 = x + 1 \\ -1 \quad -1 \\ \hline -11 = x \end{array}$$

$$14. \begin{array}{r} x + (-9) > -2 \\ +9 \quad +9 \\ \hline x > 7 \end{array}$$

$$16. \begin{array}{r} 11 - x > 0 \\ +x \quad +x \\ \hline 11 > x \text{ or } x < 11 \end{array}$$

$$18. C = 343.2 \quad C = 2\pi r$$

$$343.2 = 2\left(\frac{22}{7}\right)r$$

$$\left(\frac{7}{44}\right)343.2 = \frac{44}{7}r \left(\frac{7}{44}\right)$$

$$\boxed{r = 54.6}$$

$$20. C = 897.6 \quad C = 2\pi r$$

$$897.6 = 2\left(\frac{22}{7}\right)r$$

$$\left(\frac{7}{44}\right)897.6 = \frac{44}{7}r \left(\frac{7}{44}\right)$$

$$\boxed{r = 142.8}$$

22. What is 125% of 89?

$$x = 1.25 \cdot 89$$

$$\boxed{x = 111.25}$$

24. What percent of 75 is 35?

$$\frac{x \cdot 75}{75} = \frac{35}{75}$$

$$x = 46\frac{50}{75} = \boxed{46\frac{2}{3}\%}$$

$$\begin{array}{r} 46\frac{50}{75} \\ 75 \overline{)350} \\ \underline{300} \phantom{0} \\ 500 \\ \underline{450} \\ 50 \end{array}$$

26. 35 is 8% of what number?

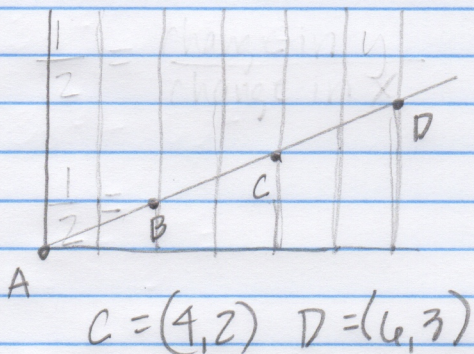
$$\frac{100}{8} \cdot 35 = \frac{8}{100}x \cdot \frac{100}{8}$$

$$\boxed{x = 437\frac{1}{2}}$$

Pre-Algebra, Week 9, May 26-28th

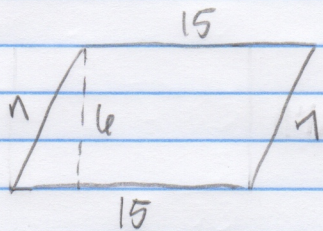
Cumulative Review, page 2:

28.  $A(0,0)$   $m = \frac{y_2 - y_1}{x_2 - x_1}$   
 $B(2,1)$   
 $C(4,?)$   
 $D(?,3)$   $m = \frac{1-0}{2-0} = \frac{1}{2}$



$C = (4,2)$   $D = (6,3)$

30.



$A = b \cdot h = 15 \cdot 6 = 90 \text{ cm}^2$

$P = 2L + 2W = 2(15) + 2(7) = 30 + 14 = 44 \text{ cm}$

32. 12, 16, 20

$12^2 + 16^2 \stackrel{?}{=} 20^2$   
 $144 + 256 \stackrel{?}{=} 400$   
 $400 = 400$  Yes

34. 9, 12, 15

$9^2 + 12^2 \stackrel{?}{=} 15^2$   
 $81 + 144 \stackrel{?}{=} 225$   
 $225 = 225$

Yes

36.  $5! = 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 120$

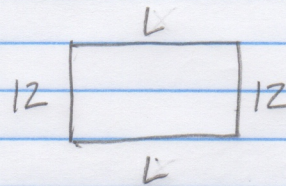
38.  $7! = 7 \cdot 6 \cdot 5 \cdot 4 \cdot 3 \cdot 2 \cdot 1 = 5040$

Problems:

2.  $\frac{1 \text{ cups}}{4 \text{ hour}} \times \frac{24 \text{ hours}}{1} = 6 \text{ cups}$

4. Carbon = 4 Fluorine = -1  
 $4c + (-1)f = 0$   
 $4(1) + (-1)f = 0$   
 $4 - f = 0$   
 $4 = f$  4 atoms

6.



$P = 2W + 2L$

$54 = 2(12) + 2L$

$54 = 24 + 2L$

$-24 -24$

$30 = 2L$

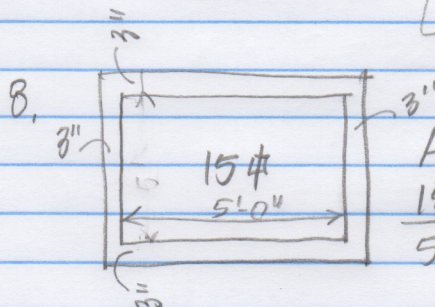
$\frac{30}{2} = \frac{2L}{2}$

$L = 15$

$A = W \cdot L$

$= 12 \cdot 15$

$= 180 \text{ m}^2$



$A = L \cdot W =$

$15 = L \cdot 5$

$\frac{15}{5} = \frac{L \cdot 5}{5}$

$L = 3'$

Overall dimensions: 5'6" x 3'6"