

Name: \_\_\_\_\_

CC2, Class 5, ElShakhs

# Weekly Math Homework Packet 12-06 to 12-13

Please have this homework sheet out next to your homework at the beginning of the period.

Homework Score				Assign Date	Due Date	Section	Classwork	Homework
100%	75%	50%	Missing					
				Fri, 12/06	Mon, 12/09	4.2.3	4-37, 384-37, 38 4-46, 47, 49	4-50, 51, 53, 54
				Mon, 12/09	Tues, 12/10	4.2.4	4-55 to 4-58	4-62 to 4-65
				Tues, 12/10	Weds, 12/11	4.3.1	4-70 to 4-72	4-66 to 4-69  Worksheet
				Weds, 12/11	Fri, 12/13	4.3.1	4-58 to 4-60 4-73 to 4-74	4-75 to 4-78

Remember – Homework help available at [www.cpm.org](http://www.cpm.org)

Friday Homework:

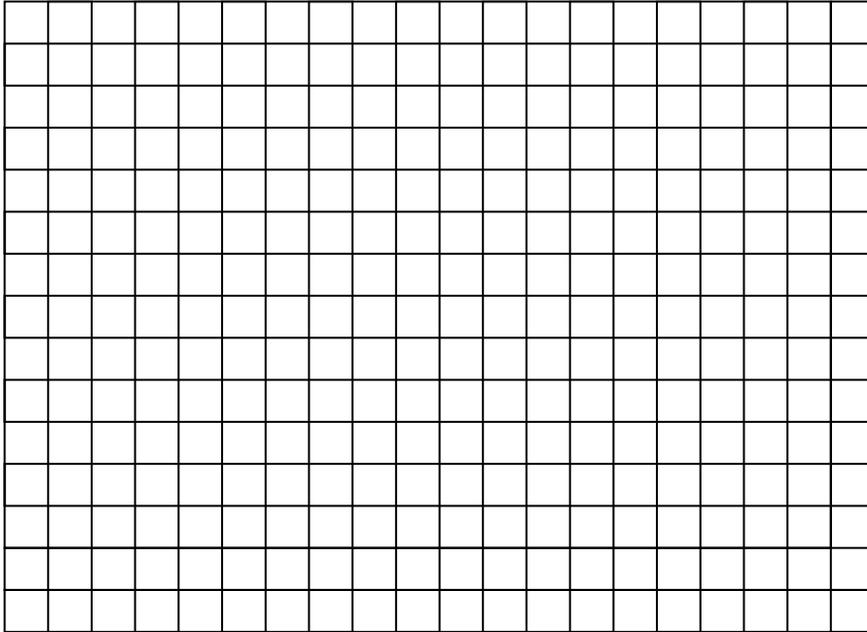
**4-50.** Complete the proportion table below and graph the results

<b>Pounds of Nails</b>	2	3		6		10		$x$
<b>Cost (\$)</b>			2.15	2.58	3.44		8.60	

What is the unit rate (price) of the graph? Be sure to include the proper units in your answer

**4-51.** The choir is planning a trip to the water park. The cost to use a school bus is \$350. Complete the table below then graph your result. Is this a proportional relationship? Explain.

Number of Students on the Trip	Bus Cost per Student (\$)
10	
15	
20	
35	



**4-53.** Simplify the following expressions. Show all work.

a.  $\frac{2}{5} - \frac{1}{6}$

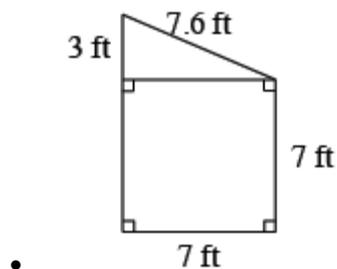
b.  $\frac{3}{7} - \frac{7}{14}$

c.  $\frac{5}{8} - \frac{2}{3}$

**4-54.** The probability of getting a white marble from a bag is  $\frac{1}{5}$ . If there are four white marbles in the bag, what is the total number of marbles in the bag?

Monday Homework:

**4-62.** Find the area and perimeter of the shape below.



**4-63.** Circle terms and simplify each of the following expressions.

a.  $3 + 1 \cdot 4 + (-7)$

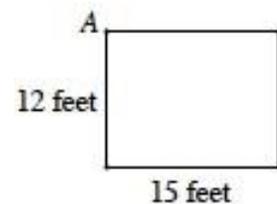
b.  $50 + 3(-10) + 2(-20)$

c.  $4 + (-50) \cdot 2$

d.  $(4 + (-170))(5 + (-4))$

**4-64.** CECIL'S LATEST TRICK

To amaze the audience, Cecil set up four tightropes in a rectangle, each connected at a pole as shown in the diagram at right. A ladder down from the ropes is located at point A.



- If Cecil starts at point A and must travel completely around the rectangle, how far must Cecil travel?
- How can Cecil's distance be represented by an expression?

**4-65.** State whether or not each equation below represents a proportional relationship. How can you tell?

a.  $y = x + 2.3$

b.  $y = \frac{6}{13}x$

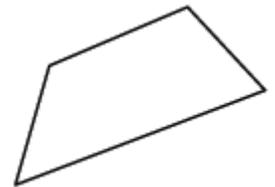
c.  $7 - y = 2x$

Tuesday Homework:

**4-66.** A stack of six bricks is two feet high. Use that information to answer the questions below.

- How many bricks are in a stack 20 feet high?
- How high is a stack of 20 bricks?

**4-67.** Alexa is looking at the shape at right. She needs to make several different figures that are similar to it.



- If she uses the scale factor  $\frac{5}{8}$ , will the new shape that she creates be larger or smaller than the original? Justify your answer
- What is one scale factor Alexa could use to make a smaller shape.
- What is one scale factor Alexa could use to make a larger shape.

**4-68.** Kirk is helping his grandparents set up their new portable music players. His grandmother, Maude, has 1 jazz album, 2 country western albums, and 5 heavy-metal albums. Kirk's grandfather, Claude, has 3 classical albums, 2 rap albums, and 7 heavy-metal albums.

- a. How many albums does each grandparent have on their player?
  
- b. If Kirk's grandparents' portable music players are on random shuffle mode, who has the greater chance of listening to a heavy-metal album? Explain how you know.

**4-69.** At your first job, you may be amazed to learn that one-fourth of your paycheck will go to pay taxes.

Suppose the amounts listed in parts (a) through (c) below are the earnings for three employees. Determine how much of each paycheck will go to pay taxes. Show all work.

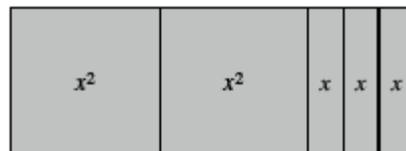
- a. \$84
  
- b. \$128
  
- c. \$210

Wednesday Homework:

**(Also separate worksheet)**

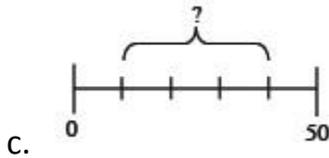
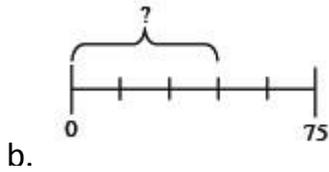
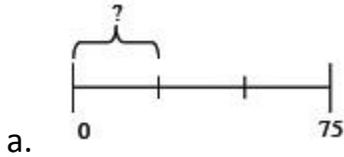
**4-75.** Sketch the shape made with algebra tiles at right on your paper. Then answer parts (a) and (b) below.

- a. Find the area and perimeter of the shape.

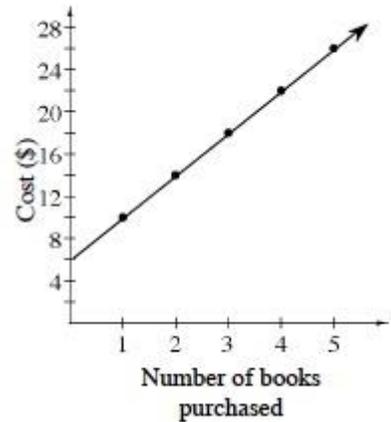


- b. If the algebra tiles were rearranged into a different shape, how would the area change?

**4-76.** What is the length of the marked portion of each line segment? Copy the segment onto your paper before finding the missing length. Assume that the entire line segment is subdivided into equal sections.



**4-77.** Is the relationship shown in the graph at right proportional? Explain why or why not.



**4-78.** Dante is ordering wood flooring for his bedroom, which is shaped like a trapezoid (shown at below). If the flooring materials cost \$5 per square foot, how much should he expect to pay for the materials?

