

**Pre-Algebra Problem Set 2**

Name \_\_\_\_\_

Assigned Thursday 9/12, due Friday 9/20

**NO Work Shown, NO Credit Given**

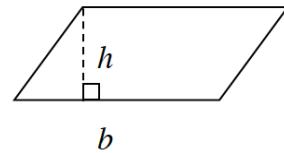
Period \_\_\_\_\_

**Problems #1-4 can be completed on this paper. The work for problems #6-14 needs to be attached on a separate piece of paper.**

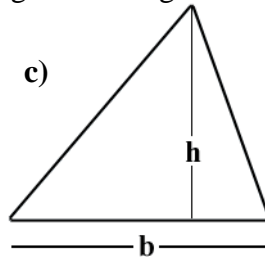
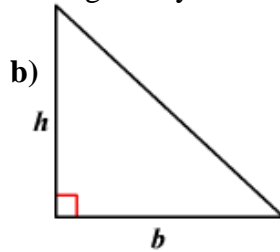
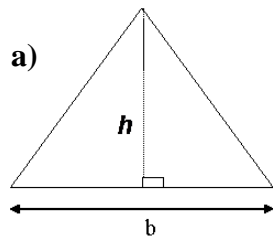
1. a) Draw arrows to show how to rearrange the area of the parallelogram to create a rectangle.

b) What is the area formula for the new rectangle?

c) What is the area formula for the original parallelogram?



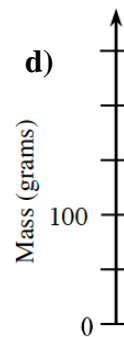
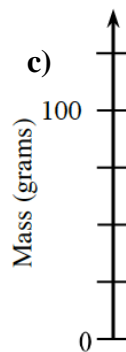
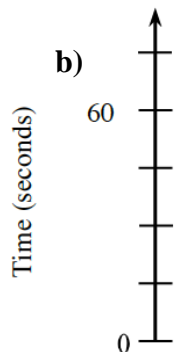
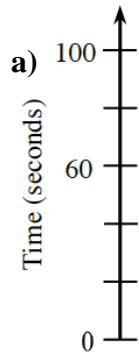
2. For each triangle below, form a parallelogram by drawing a second congruent triangle.



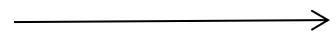
d) What is the area formula of each parallelogram?

e) What is the area formula for each triangle?

3. Write the missing numbers on each axes.



4. Find the **median** for Andy's test scores: 76, 84, 95, 67, 82, 87, and 76.



Please show your work for #5-14 on a separate piece of paper, and staple to this homework.

5. Find the **mean** for Andy's test scores: 76, 84, 95, 67, 82, 87, and 76.

6. Kimberly is playing "Guess My Number." Her clue is, "When I triple my number and subtract 77, I get 73." Find Kimberly's number and explain how you know your answer is correct.

7. Which is greater,  $\frac{3}{4}$  or  $\frac{11}{16}$ ? How can you be sure?

8. Use the fact that there are 12 inches in a foot to answer the questions below.

a) How many inches tall is a 7-foot basketball player?

b) If a yard is 3 feet long, how many inches are in a yard?

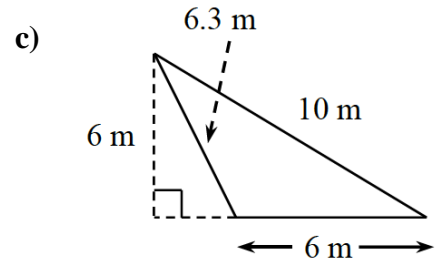
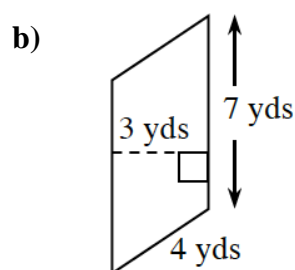
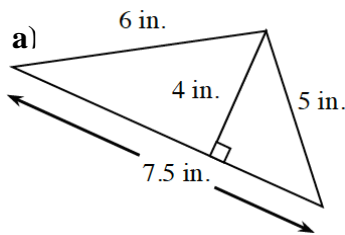
9. If five notebooks cost \$5.25, how much would three notebooks cost?

10. Ramon is saving \$8 per week to buy a new cell phone. The phone he wants costs \$125.00. For how many weeks will he need to save his money?

11. a. Show your work:  $5664 \div 8$ . Use multiplication to check your answer.

b. Show your work:  $1008 \div 42$ . Use multiplication to check your answer.

12. Find the perimeter *and* area of each figure. Be sure to include correct units for each answer.



13. Brady started to fill the box shown with some unit cubes. Including the cubes that are already in the box, what is the total number of unit cubes needed to completely fill the box?

