



PRACTICE



TUTORIAL

Name: _____

4-10 Additional Practice

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In 1 and 2, complete the table and the graph to show the relationship between the variables in each equation.

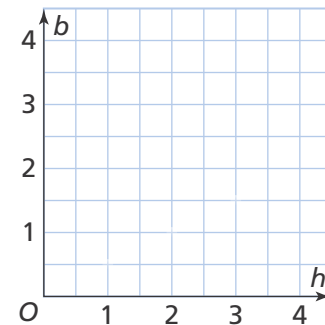
1. Bodie drew a triangle. The base of his triangle is $\frac{1}{2}$ the height of the triangle.

Let h = height.

Let b = base.

Graph $b = \frac{h}{2}$.

$b = \frac{h}{2}$	
h	b
1	<input type="text"/>
2	<input type="text"/>
<input type="text"/>	<input type="text"/>



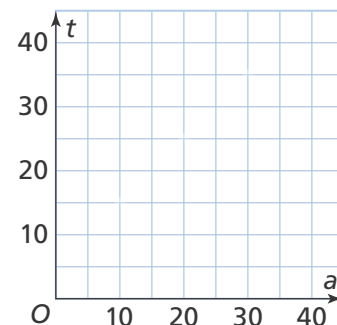
2. Eva's mother will add \$5 to all other donations that she collects for the school fund drive.

Let a = all other donations.

Let t = total donations.

Graph $t = a + 5$.

$t = a + 5$	
a	t
10	<input type="text"/>
20	<input type="text"/>
<input type="text"/>	<input type="text"/>



In 3 and 4, use the information about the femur bone.

3. Forensic anthropologists analyze skeletons to help solve crimes. They can use the length of a femur bone to estimate the height of a skeleton. The height of a skeleton is about 30 inches taller than twice the length of the femur bone. Let h represent the height of a skeleton. Let f represent the length of a femur bone. Write an equation to represent the height of a skeleton.



Adult femur bones are often between 15 and 20 inches long.

4. **Higher Order Thinking** Rhonda is 5 feet tall. About how long is her femur? Explain.



In 5–8, use the picture at the right.

5. People get energy from the food they eat. This energy is measured in calories. When you exercise, you use up or burn calories. The picture at the right shows about how many calories a 125-pound person burns each minute bowling. How many calories does a 125-pound person burn in 2 hours of bowling?



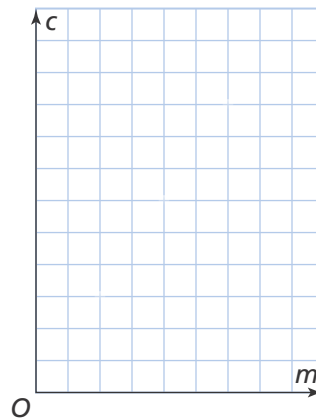
3 calories burned each minute

6. **Model with Math** Use the information from Exercise 5 to write an equation representing the number of calories burned each minute while bowling. Let m represent the number of minutes a 125-pound person bowls. Let c represent the number of calories burned. © MP.4

7. Complete the table for the equation you wrote in Exercise 6.

m	c
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

8. Complete the graph using the table data from Exercise 7.



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9. Ellen wrote the equations $y = 2\frac{1}{2} \cdot x + 1$ and $y = 2\frac{1}{2} \cdot x - 1$.

PART A

Which equation represents the table at the right?

x	y
2	4
4	9
6	14

PART B

If $x = 10$, what is the value of y that would be recorded in the table?

