

**Warm Up 58**  
*J Allyn*

Name \_\_\_\_\_

1

bank

5 miles

First Street

Elm Street

7 miles

Treasure

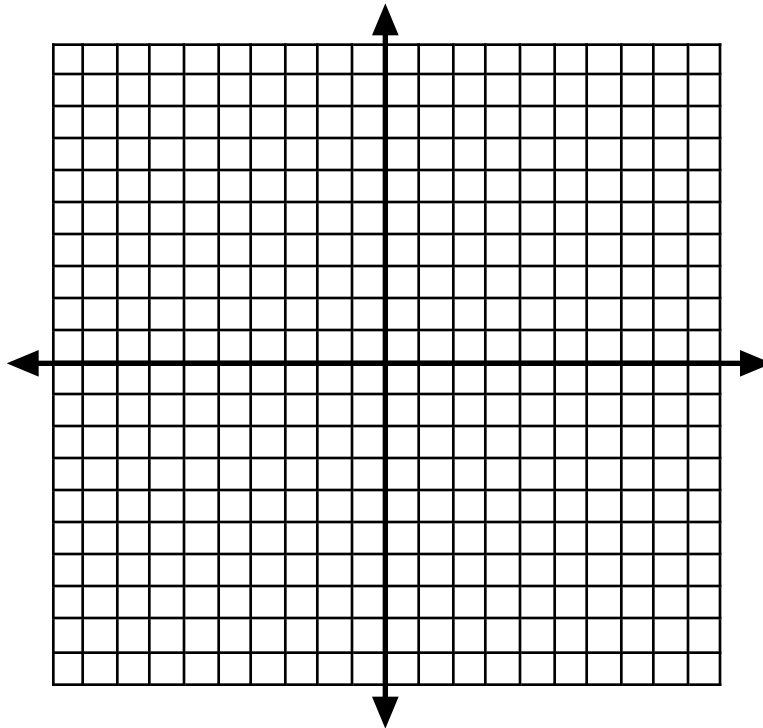
Samuel's treasure is heavy. He wants to place it in the bank quickly. About how much distance would he save if he took the direct route instead of going down Elm and up First Street ?

If Samuel dragged his treasure at a rate of 3 miles per hour, about how much time would he save by taking the direct route ?

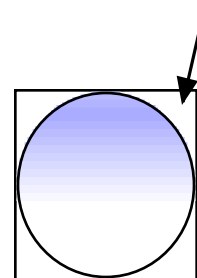
2 Tim could make \$ 8.00/hour hammering nails and \$6.00/hour carrying lumber to the carpenters. He must earn at least \$120.00 to purchase his wife the present she wants for her birthday.

Develop an inequality which 'models' this situation. Graph it after you have written it in 'y' or slope-intercept form.

Why must you be careful when graphing this inequality ?



3 A circle is inscribed in a square with an area of  $16 \text{ cm}^2$ . Find the area indicated by the arrow.....inside the square but outside the circle. Leave your answer in terms of  $\pi$ .



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