

Name _____

Instructor _____

Date _____

SHOW YOUR WORK!

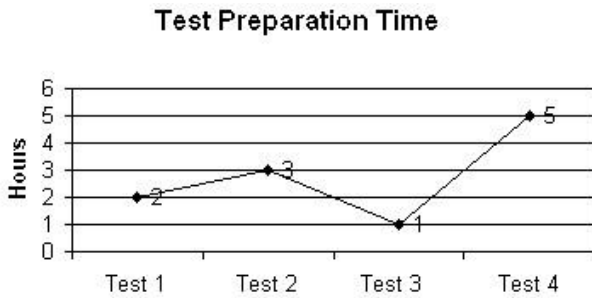
The skills needed to complete this worksheet are required for our work in Chapter 6. Please seek help as soon as possible if you have difficulty completing any of these sections.

Learning Objectives

- A. Read bar graphs and line graphs.
- B. Plot points on the rectangular coordinate system.
- C. Determine whether ordered pairs are solutions of equations.
- D. Complete ordered-pair solutions of equations.

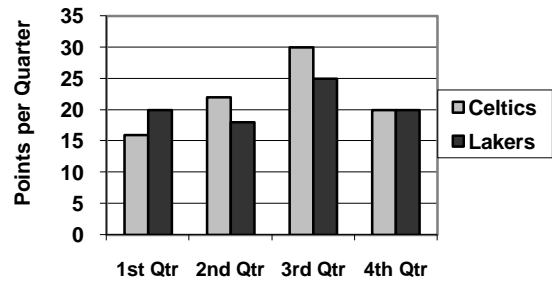
OBJECTIVE A: Read bar graphs and line graphs. (See Examples 1–2, pages 407-409)

Use the line graph below to answer questions 1–2.



1. How many more hours were needed to prepare for Test 4 than for Test 3?
2. How many hours were needed to prepare for all 4 tests?

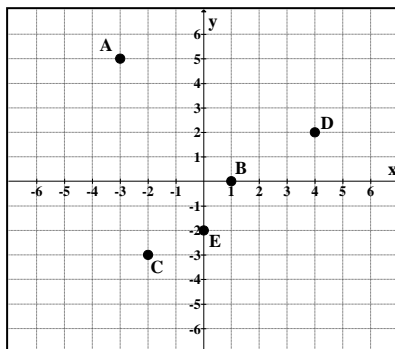
Use the bar graph below to answer questions 3–4.



3. What was the score at the end of the 2nd quarter?
4. What was the final score? Who won the game?

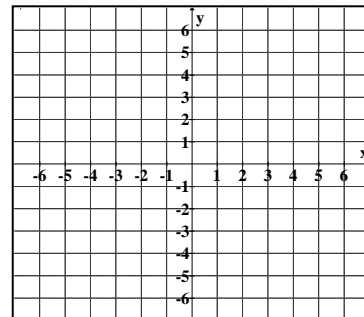
OBJECTIVE B: Use the quotient rule for exponents. (See Example 3, page 410)

5. Find the coordinates of each point ordered pair.



- A: _____
- B: _____
- C: _____
- D: _____
- E: _____

6. Plot the points corresponding to the ordered pairs: $x = -3y$: (3, -1), (0, 0), (-3, 1).



7. State which quadrant each point lies in.
- (a) $(-3, 2)$
 - (b) $(5, -1)$
 - (c) $(-4, -6)$
8. Does the point $(6, 0)$ lie in Quadrant I? Explain why or why not.

Objective C: Determine whether ordered pairs are solutions of equations. (See Example 5, page 412)

9. Is $(1, 4)$ a solution for the given equation?
 $y = -4x$
10. Is $(4, 1)$ a solution for the given equation?
 $2x - 3y = 5$
11. Is $(3, -8)$ a solution for the given equation?
 $y = 2x - 14$
12. Is $(-3, 0)$ a solution for the given equation?
 $-x + 2y = 6$

OBJECTIVE D: Complete ordered-pair solutions of equations. (See Example 5, page 412)

Complete each ordered-pair solution for the given equations.

13. $y = 3x$ $(1, \quad), (-2, \quad), (\quad, 0)$
14. $2x - y = 4$ $(3, \quad), (\quad, 0), (4, \quad)$
15. $y = -x - 3$ $(4, \quad), (5, \quad), (\quad, -3)$
16. $x = y + 2$ $(\quad, 3), (\quad, 0), (\quad, 1)$