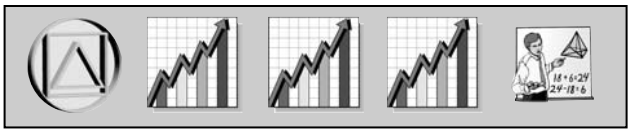
Name: _____

Date: _____ Grade: _____

SECTION QUIZ 2-2



Remember:
Score an 85% or higher on all three quizzes and you may be exempt from the chapter test!



Congratulations! You have completed this section!
Answer the following questions to test your understanding of the material. When you are finished, hand in your quiz to your teacher. Each answer is worth 2.1 points.

Choose the correct answer.

1. Reflections in mathematics are usually made around or about a _____ (circle, square, line).

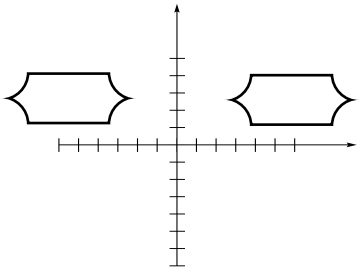
2. All reflections are congruent to the original shape. _____ (a) True or (b) False

3. An example of a reflection that occurs in nature is the _____ (asymmetry, symmetry, refraction) of butterflies.

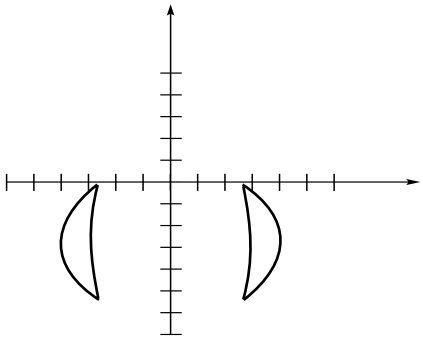
4. When you look in a mirror your image is reflected in reverse. _____
(a) True or (b) False

Write "Yes" on the blank if the following diagrams represent a reflection. Write "No" on the blank if the diagram does not represent a reflection (5-9).

5. _____

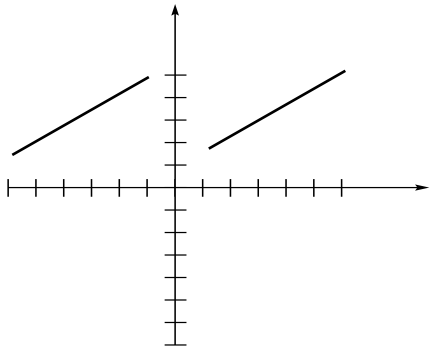


6. _____

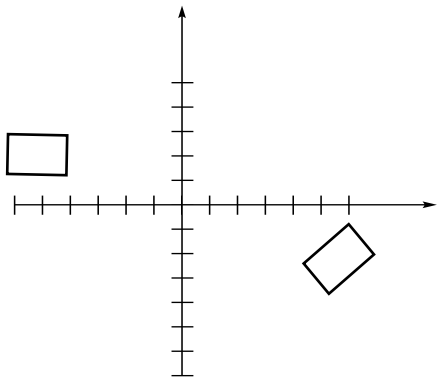


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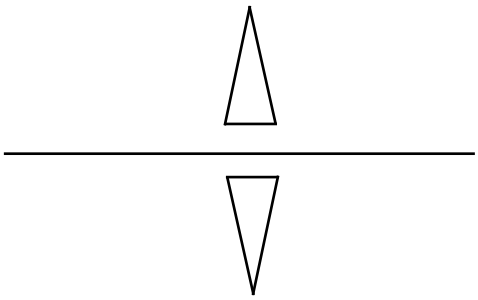
7. _____



8. _____



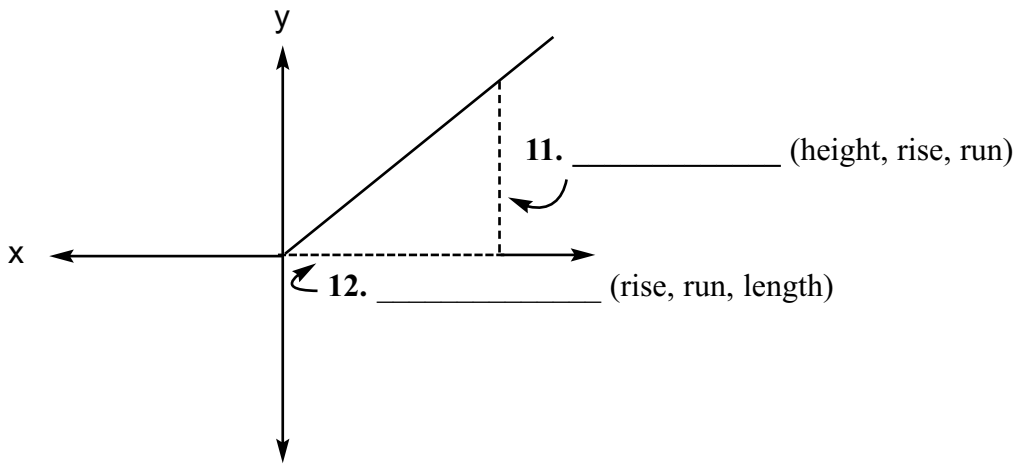
9. _____



10. Mathematicians refer to the "steepness" of a line as _____ (pitch, slope, slant).

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Refer to the figure below and write the appropriate answers on the blanks.



Demonstrate your knowledge of Cartesian coordinate systems.
Write the correct answers in the blanks.

13. The formula for slope is m = _____.

14. Points on a Cartesian coordinate system are labeled _____ (ordinates, abscissas, (x, y)).

15. A point is labeled (x, y). (x, y) is known as the _____ (abscissa, ordinate, coordinate) of a point.

16. The x-value is known as the _____ (abscissa, ordinate, coordinate).

17. The y-value is known as the _____ (abscissa, ordinate, coordinate) of the point.

18. The slope of a line between any two points on that line is _____ the slope between any two other points on the same line.
(a) more than (b) less than (c) equal to

Calculate the slope of the line for questions #19-24 between the points indicated.

19. What is the slope of the line between the points (2, 8) and (4, 4)? _____

20. Calculate the slope of the line between the points (0, 0) and (4, 4). Show your work and place your answer on the blank. _____

21. Calculate the slope of the line between the points (4, 3) and (1, 3). Show your work and place your answer on the blank. _____
(a) 1 (b) 0 (c) undefined (d) $^3/_4$ (e) none of these

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22. Calculate the slope of the line between the points (4, 2) and (2, 1). Show your work and place your answer on the blank. _____

23. Calculate the slope of the line between the points (6, 3) and (3, 1). Show your work and place your answer on the blank. _____

24. Calculate the slope of the line between the points (10, 6) and (3, 3). Show your work and place your answer on the blank. _____

Calculate the slope of a line for questions 25 and 26 through the points indicated. Then tell if the graph of the line will slope upward or downward, going left to right.

25. (2, 2) and (3, 7)
slope = _____ upward or downward _____

26. (1, 1) and (7, 0)
slope = _____ upward or downward _____

Choose the correct answer.

27. The _____ (origin, end, top) has a coordinate of (0, 0).

28. The ordinate of any point located on the x-axis is _____ (zero, one, two).

29. The abscissa of any point located on the y-axis is _____ (zero, one, two).

30. _____ (negative, positive) slopes, slope downward left to right.

31. All lines with a _____ (negative, positive) slope move upward going left to right.

32. _____ (parallel, perpendicular) means to intersect at right angles (90°).

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SECTION QUIZ 2-2

33. The slopes of perpendicular lines are negative _____ (reciprocals, lines, terms) of each other.

34. Vertical lines have an _____ (upward, undefined) slope.

35. Horizontal lines have a _____ (zero, downward) slope.

36. If the gravitational pull of the planet Mars is five-sixth that of the Earth, calculate the weight of an astronaut on Mars if his weight on the Earth is 192 pounds. _____
(a) 160 pounds (b) 222 pounds (c) 150 pounds (d) 190 pounds

37. John is 8 years old. Timothy is twice as old as Jimmy. Jimmy is one-fourth as old as John. Calculate the ages of Timothy and Jimmy. Timothy _____; Jimmy _____
(a) Timothy 4; Jimmy 16 (c) Timothy 4; Jimmy 2
(b) Timothy 2; Jimmy 4 (d) Timothy 16; Jimmy 2

Determine if the lines with the slopes described below intersect, are parallel or are perpendicular (38-42).

38. $m_1 = 2$ and $m_2 = 1$ _____

39. m_1 = zero and m_2 = undefined _____

40. $m_1 = -3$ and $m_2 = 1$ _____

41. $m_1 = -2$ and $m_2 = -2$ _____

42. $m_1 = 5$ and $m_2 = -1/5$ _____

43. Calculate the slope of the lines through the indicated points: l_1 through the points (3, 2) and (1, 4) and l_2 through the points (6, 5) and (0, 4). Are the lines parallel, perpendicular or intersect? _____ (Show your work.)

Match the Life Principles.

44. _____ *"A good attitude is*	(a) *that keeps a marriage together."*
45. _____ *"Your actions are*	(b) *can take you upward to new heights."*
46. _____ *"A positive attitude*	(c) *sometimes a steep climb."*
47. _____ *"The path to success is*	(d) *a reflection of your character."*
48. _____ *"Love is the factor*	(e) *the reciprocal of a bad one."*

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