ACTIVITY ANSWER KEY

Chapter 4 Section 3

Check your answers from the Answer Key.
Correct all errors, then complete your next goal.

Lesson 11: *Inequalities*

Combined Intervals

1. ingredients
2. mixture
3. combined
4. algebra
5. combined interval
6. two
7. 3
8. reasoning
9. Reasoning
10. separately
11. positive
12. negative
13. twice
14. separating
15. interval
16. divides
17. $4 < x \leq 8$
18. (4, 8]
19. combined
20. divides
21. set-builder
22. $\{x \mid 7 < x \leq 8\}$, (7, 8]
23. $\{x \mid 2 > x > 8\}$, (2, 8)
24. $\{x \mid 10 \leq x \leq 20\}$, [10, 20]
25. $\{x \mid 1 \geq x > 5\}$, [1, 5)
26. $\{x \mid -1 < x \leq 3\}$, (-1, 3]
27. $\{x \mid 15 < x \leq 40\}$, (15, 40]
28. (c) $\{x \mid 4 > x > -3\}$, (4, -3)
29. (b) $\{x \mid 7 < x < 13\}$, (7, 13)
30. *"When combined, wisdom and hard work spell success."*

Lesson 12: *Absolute Value*

Absolute Value

1. absolutes
2. absolute
3. equal, opposite
4. opposites
5. gravity
6. thrust; opposite
7. absolutes
8. zero
9. 2
10. zero
11. negative
12. positive
13. direction
14. Absolute value
15. 2
16. 5
17. 6
18. absolute value
19. 4
20. 3
21. zero
22. 5
23. 10
24. 37
25. 1
26. 0
27. 55
28. 95
29. 73
30. 17
31. 9
32. (a) 8
33. (b) 66

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34. 89
35. 1
36. (b) -9
37. -7
38. *"An absolute of great value is truth."*



Lesson 13: ***Absolute Value***
Absolute Grouping

1. flock
2. required
3. royalty
4. grouped
5. common (or frequently used)
6. absolute value
7. grouping
8. 3
9. 32
10. 22
11. |20|, 20
12. |- 20|
13. - |- 7|, -7
14. PEMDAS
15. 4
16. |-10| (or 10)
17. 3
18. 20
19. 20
20. first
21. 18
22. 3
23. -39
24. 18
25. 2
26. (d) 2
27. (a) 3
28. (e) none of these
29. 10
30. 4
31. 11
32. 13
33. *"If you don't want anyone to know, don't do it."*



Lesson 14: ***Algebra***
Distance

1. formula
2. distance formula
3. distance = $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
4. (wording may vary) The distance between two points is the square root of the sum of the square of the difference of the abscissas (x-values) of each end point and the square of the difference of the ordinates of the end points (y-values).
5. x-values
6. y-values
7. Pythagorean
8. $c^2 = a^2 + b^2$
9. (b) line
10. x-axis
11. y-axis
12. $(y_2 - y_1)$
13. $(x_2 - x_1)$
14. (x_2, y_2), (x_2, y_1)
15. square root
16. $\sqrt{a^2 + b^2}$, $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$
17. 6
18. (6, 2)
19. (4, 3)
20. $(-2)^2$ (or 4)
21. $(1)^2$ (or 1)
22. $\sqrt{5}$
23. No
24. $\sqrt{5}$
25. 1
26. 0
27. 5
28. distance
29. $\sqrt{100 + 25}$
30. $\sqrt{125}$
31. $5\sqrt{5}$
32. -2, 2

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33. $\sqrt{25+1}$
34. $\sqrt{26}$
35. $\sqrt{26}$
36. (c) 5
37. (e) none of these
38. (c) $3\sqrt{2}$
39. $\sqrt{82}$
40. $\sqrt{8} = 2\sqrt{2}$
41. 1
42. 7
43. $\sqrt{8} = 2\sqrt{2}$
44. $\sqrt{10}$
45. *"You can go farther by coordinating your efforts with others."*



Lesson 15: ***Algebra***
Midpoints

1. 500; 1500
2. middle age
3. one half
4. equal
5. midpoint
6. midpoint, midpoint
7. ordered pair
8. $(\frac{x_2 + x_1}{2}, \frac{y_2 + y_1}{2})$
9. ordered pairs
10. midpoint
11. midpoint
12. (3, 5)
13. (4, 8); (12, 20)
14. 8
15. 14
16. (8, 14)
17. (d) (2, 5)
18. (d) (4, 4)
19. (a) (3, 5)
20. (50, 45)
21. (5, 30)
22. (2, 2)
23. (300, 150)
24. (14, 19)
25. *"Always put off until tomorrow what you shouldn't do at all."*

Ask for your QUIZ over Section 3.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

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