ACTIVITY ANSWER KEY

Chapter 3, Section 2

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

Lesson 6: *Exponents*

Exponentially Speaking

1. court reporter
2. shorthand
3. typewriter
4. shorthand
5. multiplication
6. 5 × 5
7. exponents
8. base
9. 4
10. exponential
11. base; exponent
12. 5 (or 5th)
13. (b) No
14. 8
15. 64
16. 243
17. 36
18. -64
19. 1
20. 0
21. negative
22. positive
23. numerator, denominator
24. (d) $(^4/_5)^2 = {}^{4\,\bullet\,4}/_{5\,\bullet\,5}$
25. 1
26. (c) $45^0 = 1$
27. number
28. (c) $151^1 = 151$
29. reciprocal, positive
30. (a) $6^{-4} = (^1/_6)^4$
31. 1
32. 67,543
33. $^1/_{64}$
34. $^1/_9$
35. 11
36. 5
37. *"Nobody can go back and start a new beginning, but anyone can start today and make a new ending."*

Lesson 7: *Fundamentals*

PEMDAS

1. order
2. order
3. order
4. procedures
5. order; operations
6. term
7. (a) terms
8. exponential term
9. (c) exponential term
10. (c) 56 + 5 - 9
11. mathematical expression
12. Parenthesis; Exponents; Multiplication; Division; Addition; Subtraction
13. Please Excuse My Dear Aunt Sally
14. parentheses
15. exponent
16. 2 × 2
17. 2
18. 2 [2(4 + 1)]
19. 2
20. PEMDAS (or *order of operations*)
21. left; right
22. left; right
23. -30
24. one
25. 12
26. -26
27. $^1/_{25}$
28. 14

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29. 6
30. *"The hardest thing to find is a person who can concentrate on what is important."*

Lesson 8: *Exponents*
Square Power

1. multiply
2. acquire; home
3. wife
4. husband
5. happy
6. architect
7. length; width; square units
8. cubic
9. (b) square
10. water heater
11. 16
12. multiply
13. (d) 900
14. (c) 2025
15. squares
16. equal
17. $A = s^2$
18. square
19. 3; 5
20. rectangle
21. $A = l \times w$
22. 15
23. 3
24. 20; 40
25. 46; 26
26. rectangles
27. (b) False
28. 396
29. 4,524
30. (b) 3,500 sq ft
31. (b) 114 ft.^{2}
32. *"You get married not to be happy, but to make each other happy."*

Lesson 9: *Radicals*
Square Roots

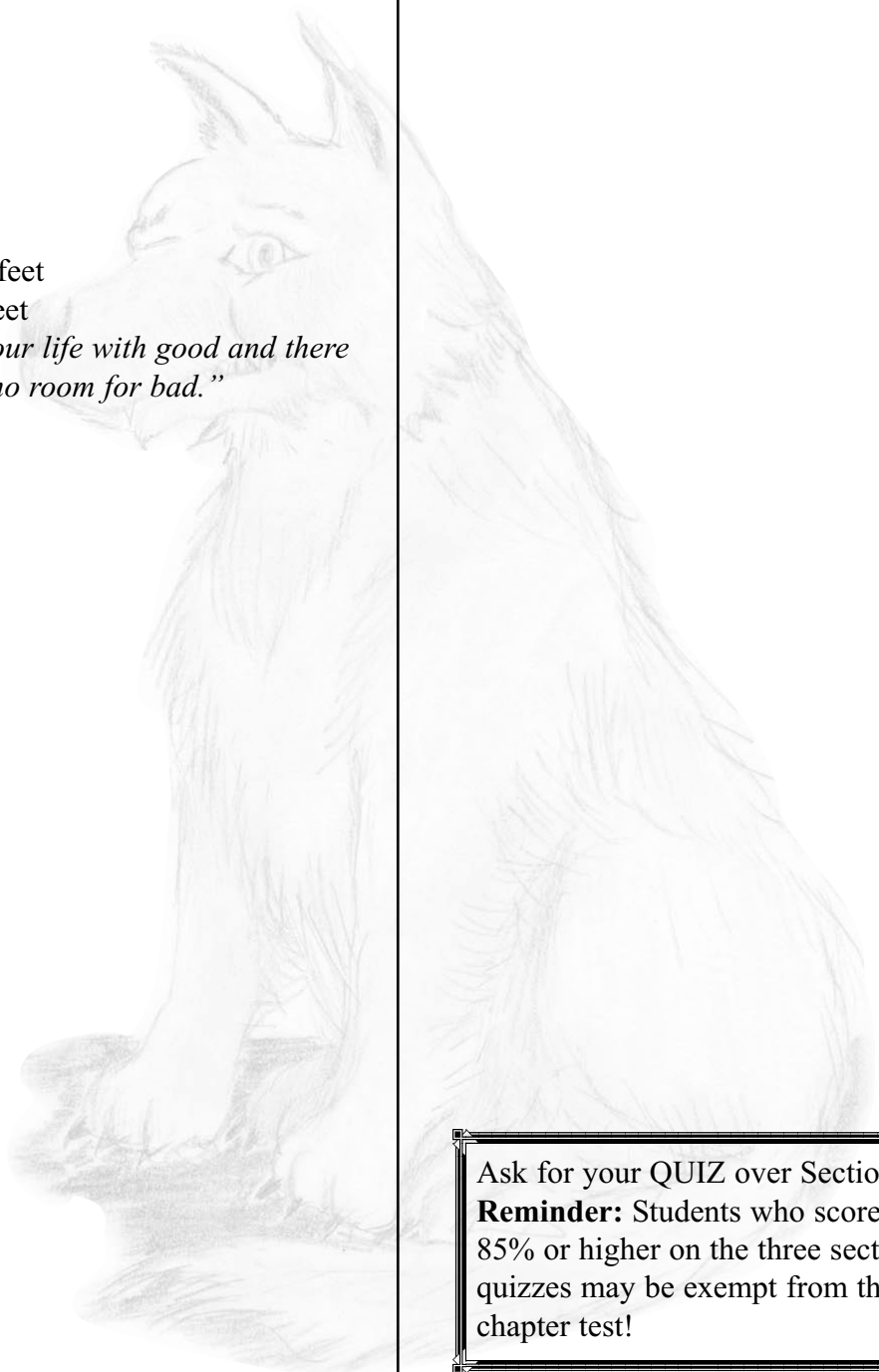
1. reverse
2. square
3. exponents
4. opposite
5. radical
6. square root
7. 20
8. whole
9. 5
10. 10
11. 8
12. 9
13. 3
14. 7
15. 1
16. 2
17. 12
18. 11
19. 6 ft
20. 15
21. positive
22. $\sqrt{9 \bullet 6} = \sqrt{9} \bullet \sqrt{6} = 3\sqrt{6}$
23. $\sqrt{9 \bullet 11} = \sqrt{9} \bullet \sqrt{11} = 3\sqrt{11}$
24. $\sqrt{4 \bullet 22} = \sqrt{4} \bullet \sqrt{22} = 2\sqrt{22}$
25. $\sqrt{648} = \sqrt{2 \bullet 4 \bullet 81} = 2 \bullet 9 \bullet \sqrt{2} = 18\sqrt{2}$
26. *"Problems are easier when we get to the root of the problems."*

Lesson 10: *Exponents*
Cubes

1. three
2. area
3. volume
4. $V = s^3$
5. 27
6. 512
7. (a) cube
8. $V = l \times w \times h$

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9. cubes
10. Multiplying
11. 36
12. books
13. 29
14. 24 cubic feet
15. (b) No
16. -64
17. 125
18. 27
19. -8
20. -1
21. 216
22. 0
23. 343 cubic feet
24. 21 cubic feet
25. *"Fill up your life with good and there will be no room for bad."*



Ask for your QUIZ over Section 2.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

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