ACTIVITY ANSWER KEY

Chapter 3, Section 2

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

Lesson 6: *Geometry*
Review Volumes

1. cylinder
2. 10
3. 15
4. volume
5. $Bh = \pi r^2 h$
6. base
7. πr^2
8. $(5 \text{ feet})^2$
9. 1,177.5
10. 7.5
11. ft^3
12. 8,831.25
13. (a) 12.56 cubic in.
14. 2,260.8 cubic feet
15. sphere
16. 60 ft
17. drawing
18. $\frac{4}{3}\pi r^3$
19. substitutes, π (or *pi*)
20. $\frac{60}{2}$
21. 9,000
22. 38,772.7 cubic feet
23. 288,549.25 cubic feet
24. 128 cubic inches
25. *"Things turn out best for the people who make the best of the way things turn out."*

Lesson 7: *Algebra*
Review Pythagorean Theorem

1. Pythagorean Theorem
2. $a^2 + b^2$
3. volleyball
4. 6
5. six feet
6. the sum of the squares of the other two sides
7. 6^2, 6^2; hypotenuse
8. 6
9. 72
10. 8.48 feet
11. square
12. 60 feet
13. baseball diamond
14. substitutes
15. 60^2
16. 60^2
17. 84.9 feet
18. 84.9 feet
19. 127.28 feet
20. 304 feet
21. (d) $2\sqrt{2}$ units
22. 51 miles
23. (b) 2 cm
24. $\sqrt{10}$ m
25. *"Alter your attitude and you can alter your life."*

Lesson 8: *Geometry*
Review Similar

1. vertical angles
2. supplementary angles

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3. supplementary angles
4. supplementary angles
5. vertical angles
6. supplementary
7. c
8. equal
9. 130°
10. 50°
11. 130°
12. supplementary
13. 25°
14. 75°
15. 90°
16. complementary
17. supplementary
18. complementary
19. complementary
20. complementary
21. supplementary
22. complementary
23. supplementary
24. supplementary
25. *"Days are scrolls; write on them what you want to be remembered."*



Lesson 9: ***Fractions***
Review Ratio & Proportion

1. ratio
2. proportion
3. cross-multiply; equal
4. No
5. Yes
6. Yes
7. No
8. 500
9. 200
10. $^{3}/_{5}$
11. $^{1}/_{2}$
12. 600
13. x
14. cross-multiplies
15. 300
16. cars
17. ratio
18. $11x$
19. 20
20. 300
21. 20
22. (b) No
23. $^{13}/_{7}$
24. $^{7}/_{20}$
25. (b) $^{1}/_{2}$
26. (c) $^{3}/_{2}$, $^{2}/_{5}$
27. *"Usually your success is proportional to your effort."*

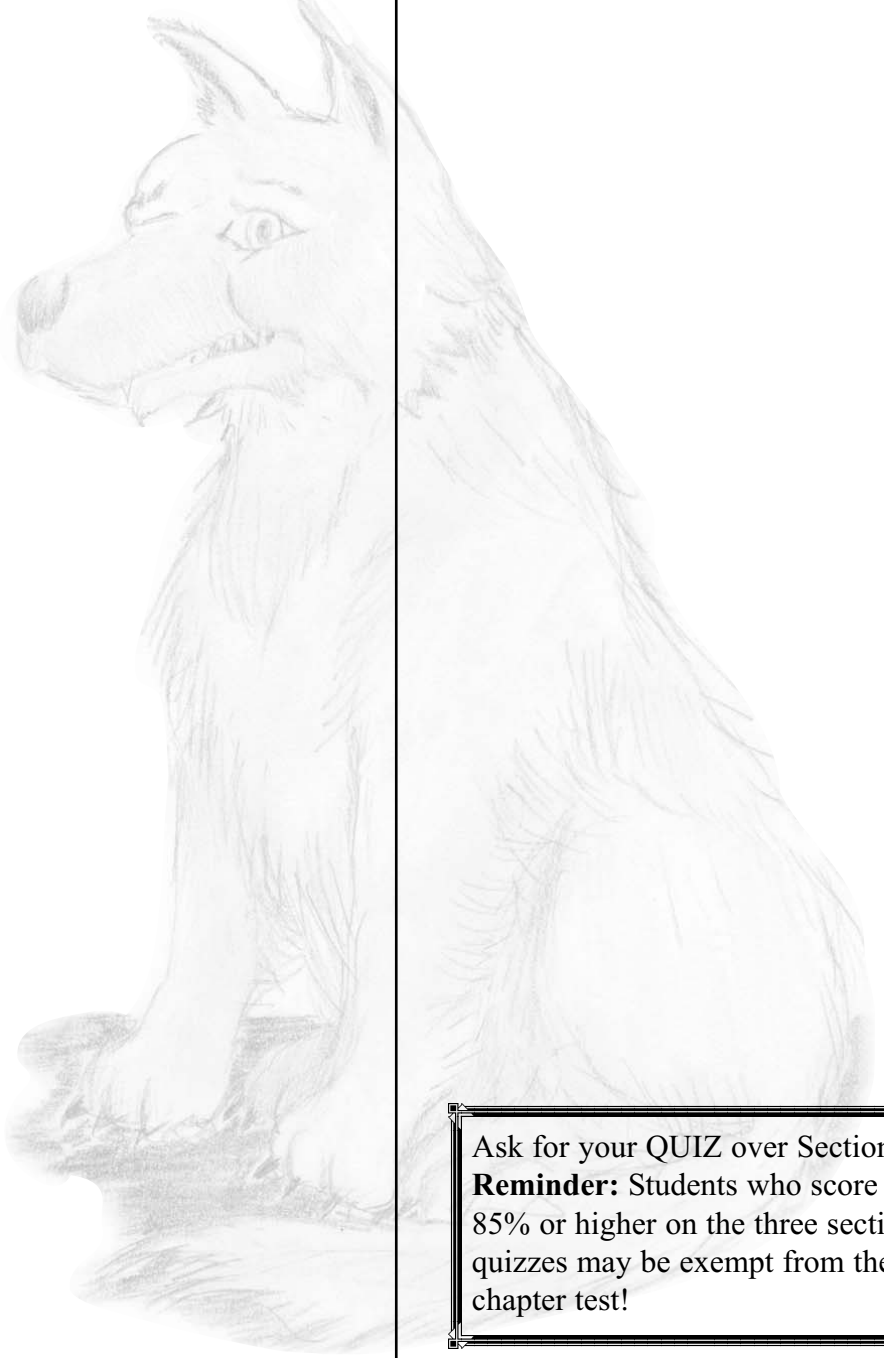


Lesson 10: ***Geometry***
Review Similar Shapes

1. similar
2. shape, size
3. congruent
4. equal
5. A-A-A
6. 10
7. 5
8. x
9. $15x$
10. $3^{1}/_{3}$
11. x = 3 inches
12. x = 5 units
13. scale factor
14. ratio
15. dilation
16. reduction
17. (e) a or b
18. three
19. multiplying
20. nine
21. $^{9}/_{1}$
22. $^{1}/_{16}$
23. (a) 9
24. 3 times
25. three
26. twenty-seven

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27. $^{27}/_{1}$
28. 216
29. 8
30. $^{27}/_{1}$
31. $^{64}/_{1}$
32. (c) 64 cubic units
33. *"Regarding the shape of your life, your choices are part of the equation."*



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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