ACTIVITY ANSWER KEY

Chapter 6, Section 3

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

Lesson 11: *Geometry*
Perimeter

1. polynomials
2. perimeter
3. $2x + 4$
4. length
5. $P = 2l + 2w$
6. Distributive Property
7. Commutative Property
8. right hand side
9. like
10. $6x$
11. eight
12. divided
13. 2, x
14. substituted
15. integers
16. integer
17. (c) perimeter
18. $3x$
19. three
20. three
21. 20
22. x
23. 20; 21; 22
24. 16 inches, 3 inches
25. (c) $l = 13$, $w = 5$
26. $l = 17$ inches, $w = 10$ centimeters
27. 10 meters; 12 meters; 14 meters
28. (b) 30, 32, 34
29. 30 inches; 35 inches; 40 inches
30. *"It is better to ask some of the questions than to know all of the answers."*

Lesson 12: *Geometry*
Similarity

1. similarity
2. x
3. $x + 5$
4. 3
5. proportion
6. $\frac{1}{2}$
7. $2x$
8. subtracted
9. left hand side
10. 5, 10
11. proportions
12. 8
13. 32
14. -1
15. 3
16. (a) AC = 20; CD = 12; AD = 20
17. 8; 8; 8
18. 22; 10; 22
19. (d) 8 in. × 4 in.
20. 8 inches by 24 inches
21. *"If we do not maintain Justice, Justice will not maintain us."*

Lesson 13: *Geometry*
Other Perimeters

1. polynomials
2. pentagons
3. mathematical
4. equilateral
5. equal
6. $P = 5s$
7. 4

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8. 9
9. 45 inches
10. 44 feet
11. x - 2
12. $C = 2\pi r$
13. $^{22}/_{7}$
14. 7
15. seven
16. (a) adds 88 to
17. divides; 44
18. 7
19. 60 inches
20. $s_1 = 10$, $s_2 = 11$, $s_3 = 12$, $s_4 = 13$, $s_5 = 14$
21. (b) 72 cm
22. (c) 28 ft
23. 21 inches
24. 14 feet
25. *"Courage is resistance to fear, mastery of fear—not absence of it."*



Lesson 14: *Algebra*
Factoring Polys

1. factorization (or factoring)
2. factor
3. factors
4. two; one
5. (b) False
6. complete factorization
7. 2 • 2 • 2
8. factoring (or factorization)
9. factor
10. 3
11. 3, 5, 2
12. x
13. y
14. 2
15. $(2 \bullet 2 \bullet 2 \bullet 3)(x \bullet x \bullet x)(y \bullet y)$
16. dividing
17. outside
18. 9
19. Distributive Property
20. trinomial
21. $2x$
22. divided
23. outside
24. Distributive Property
25. (c) product
26. $2 \bullet 3 \bullet 5 \bullet x$
27. $2 \bullet 2 \bullet 2 \bullet 3 \bullet x \bullet x \bullet y \bullet y$
28. $6(x + 2)$
29. $4(x + 2)$
30. $8(x + 2)$
31. $7(x - 3)$
32. $9(a - 4)$
33. (d) $4(a + 3b + 4c)$
34. $5(xy^2 - 2xy + 3)$
35. $4x(a + 2b + 3c)$
36. $2x(x^2 - 2x - 4)$
37. $3a(x^2 + x + 2)$
38. $10y(x^2 + 2x + 3)$
39. (a) $2x(a + b + c + d)$
40. *"Nothing is swifter than rumor."*



Lesson 15: *Algebra*
Reducing Fractions

1. factor
2. problems
3. separately
4. 8
5. 16
6. $x + 2$
7. all
8. (b) No
9. (a) Yes
10. $80x$
11. 12
12. $3x - 2$
13. $^{20}/_{3}$
14. 4
15. 16
16. 1
17. $^{1}/_{4}$
18. one
19. divide (or cancel)

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20. (c) $\frac{x+3}{3(x+2)}$

21. $\frac{x+5}{3x+2}$

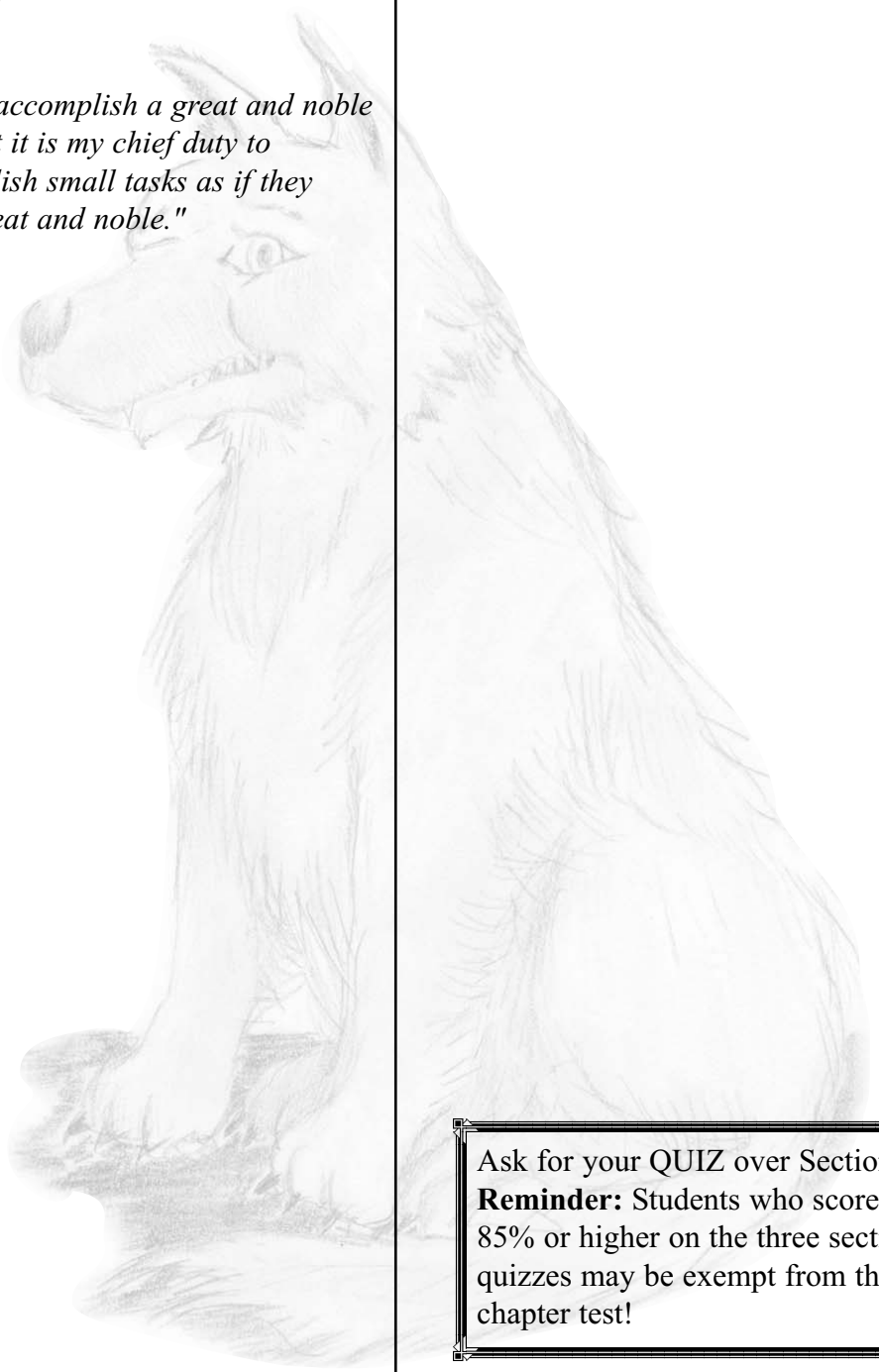
22. $\frac{x+5}{2(x^2+2x-1)}$

23. $\frac{x-7}{2(x^2+x-2)}$

24. (b) $\frac{1}{2}$

25. 3

26. *"I long to accomplish a great and noble task, but it is my chief duty to accomplish small tasks as if they were great and noble."*



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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