ACTIVITY ANSWER KEY

Chapter 6, Section 2

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



Lesson 6: *Algebra*

Long Division Remains

1. remainder
2. 2
3. 245
4. 1
5. $^1/_2$
6. 2
7. $2x + 7$
8. 1
9. $^1/_2$
10. $4x$
11. $24x^2 - 40x + 16$
12. 16
13. $^4/_x$
14. $110^6/_7$
15. $1{,}099^8/_9$
16. $1{,}077^2/_3$
17. $x + 1 + {}^1/_3$ (or $x + {}^4/_3$)
18. $x + 4 + {}^3/_5$ (or $x + {}^{23}/_5$)
19. $x + 1 + {}^3/_8$ (or $x + {}^{11}/_8$)
20. $x^2 + 2x + {}^{11}/_2$
21. $x + 6 + {}^1/_{2x}$
22. $2x^2 + 2x + 1 + {}^1/_7$ (or $2x^2 + 2x + 1{}^1/_7$)
23. (d) $^4/_{5x}$
24. (b) $^{13}/_{5x}$
25. *"We function in a manner consistent with our character."*



Lesson 7: *Fractions*

Complex Fractions

1. complex
2. complex
3. George W. Bush
4. thought out
5. (a) pay back in like manner
6. support
7. (a) True
8. small
9. like
10. denominators
11. over
12. invert
13. $^7/_6$
14. $^7/_9$
15. $^3/_4$
16. $^5/_9$
17. $^8/_{15}$
18. $^8/_{20}$ (or $^2/_5$)
19. $^{25}/_{36}$
20. $^{14}/_{15}$
21. $^9/_4$
22. fraction
23. division
24. division
25. $^1/_2$
26. $^1/_2$
27. multiplying
28. (d) $^1/_{12}$
29. (a) $^7/_{18}$
30. denominator
31. $^1/_3$
32. 3
33. 49
34. 105
35. both
36. division
37. flips (or inverts)
38. reciprocal
39. 4

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40. $1\frac{1}{7}$
41. (f) b or d
42. $\frac{33}{4}$ or $8\frac{1}{4}$
43. $\frac{27}{20}$ or $1\frac{7}{20}$
44. $\frac{88}{30}$ or $2\frac{14}{15}$
45. $\frac{66}{40}$ or $1\frac{13}{20}$
46. $\frac{3}{8}$
47. $\frac{9}{22}$
48. $\frac{77}{30}$ or $2\frac{17}{30}$
49. $\frac{1}{2}$
50. *"Being truthful when you know it will cost you is the true test of honesty."*



Lesson 8: ***Algebra***
Variable Fractions

1. (a) True
2. variables
3. opportunity
4. variables
5. basic
6. like
7. letters, numbers
8. difference
9. letters, numbers
10. multiplication
11. multiply
12. $\frac{x+6}{10}$
13. $\frac{x+7}{8}$
14. $\frac{x-8}{25}$
15. $\frac{45-x}{100}$
16. $\frac{4x}{21}$
17. $\frac{2x}{15}$
18. $\frac{3x}{80}$
19. $\frac{75}{2x}$
20. complex; rules
21. (d) algebraic
22. variable
23. $\frac{1}{x}$
24. $\frac{3}{4x}$
25. (c) $\frac{1}{4x}$
26. $\frac{3}{8x}$
27. $\frac{2}{7x}$
28. $\frac{3}{5x}$
29. numerator
30. 3 (or $\frac{3}{1}$)
31. (b) $\frac{5x}{2}$
32. $\frac{8x}{3}$
33. $\frac{11x}{7}$
34. $12x$
35. fraction
36. $\frac{4}{x}$
37. $\frac{8}{3x}$
38. (c) $\frac{3x}{28}$
39. $\frac{80}{9x}$
40. *"The memories of tomorrow depend on your attitude today."*



Lesson 9: ***Algebra***
Complex Variables

1. complex
2. life
3. rules
4. knowledge
5. addition
6. numerator
7. the same (or like)
8. -4
9. $5x - 4$
10. $\frac{5x+2}{5}$
11. $\frac{7x-2}{3}$
12. $\frac{6x}{9} = \frac{2x}{3}$
13. 2, 2
14. division
15. $\frac{1}{x}$
16. reciprocal
17. $\frac{2x+6}{4x}$
18. (a) $\frac{3x+6}{5x}$

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19. $\frac{5x+15}{7x}$
20. $\frac{7x+14}{3x}$
21. division
22. $x/_1$
23. $\frac{3x}{4(2x-5)}$
24. 4, 4
25. (c) $\frac{3x}{10x-5}$
26. $\frac{7x}{9x-6}$
27. $\frac{5x}{8x-18}$
28. *"All time spent being angry is time lost being happy."*



Lesson 10: ***Algebra***
Multiple Expressions

1. one bite (or step) at a time
2. safari
3. one bite (or step) at a time
4. 4
5. 6
6. $\frac{20x}{4x+6}$
7. 240
8. FOIL
9. 36
10. 2
11. 4
12. $\frac{2x-4}{3x+6}$
13. 9
14. FOIL
15. 18
16. (e) a or b
17. $\frac{48x^2-36x+6}{6x^2+48x+90}$
18. $\frac{40x^2-60x-40}{36x^2+90x+36}$
19. $\frac{180x^2-60x-120}{14x^2+91x+105}$
20. *"Life is a journey. It is best to plan where you are going."*

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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