ACTIVITY ANSWER KEY

Chapter 6, Section 1

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



Lesson 1: *Algebra*
Multiply Polys

1. multiplied
2. monomials
3. $3x$, $4x$
4. Commutative Property
5. x^1
6. multiplied
7. Commutative Property
8. 15
9. x^{1+2}
10. (d) $8x^2$
11. $110z^2$
12. (b) $42a^3$
13. $8x^3$
14. $24y^3$
15. $24z^6$
16. $6x$
17. $(5x - 7)$
18. distributes
19. $6x$
20. $6 \bullet 7$
21. $2x$
22. $2 \bullet 2$
23. $4x^2 + 6x$
24. x^2
25. $8x^2 + 4x$
26. $8x^2 + 40x$
27. $2x^2 + 10x$
28. $2x^3 + 6x^2$
29. $6x^3 + 12x^2$
30. Distributive Property
31. $5a + 12b + 8c$
32. $2x$
33. $2x$
34. $4xa + 6xb + 8xc$
35. $12xa + 6xb + 24xc$
36. $10a^2 + 50ab + 30ac$
37. $10xa + 24xb + 16xc$
38. $2x^3 + 12x^2 + 8x$
39. (c) $6xa + 4xb + 10xc - 8xd$
40. *"By asking for the impossible we obtain the possible."*



Lesson 2: *Algebra*
FOIL

1. Assembly
2. mistakes
3. instructions
4. first
5. PEMDAS
6. FOIL
7. FOIL
8. $2x$, $3x$
9. $2x$, 2
10. 1, $3x$
11. 1, 2
12. combines
13. $30x^2$
14. $6x$, -7
15. $-5x$
16. -1, -7
17. positive
18. $30x^2 - 47x + 7$
19. symbols
20. $3x$, $3x$
21. $12x$
22. -1, $3x$
23. -1, 4, -4

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24. $(2x + 1)(3x + 4) = 6x^2 + 11x + 4$
First $2x \bullet 3x = 6x^2$
Outer $2x \bullet 4 = 8x$
Inner $1 \bullet 3x = 3x$
Last $1 \bullet 4 = 4$
First $6x^2$ + Outer $8x$ + Inner $3x$ + Last $4 = 6x^2 + 8x + 3x + 4$

25. $(10x + 2)(x + 2) = 10x^2 + 22x + 4$
First $10x \bullet x = 10x^2$
Outer $10x \bullet 2 = 20x$
Inner $2 \bullet x = 2x$
Last $2 \bullet 2 = 4$
First $10x^2$ + Outer $20x$ + Inner $2x$ + Last $4 = 10x^2 + 22x + 4$

26. (d) $x^2 + 5x + 4$
27. (a) $12x^2 + 11x - 5$
28. $22x^2 + 51x - 10$
29. $10x^2 + 8x - 18$
30. *"As thou valuest thyself, others will esteem thee."*

Lesson 3: *Algebra*
More FOIL

1. responsibility
2. faithful
3. Distributive Property
4. $2x$, 1
5. $3x$, $3x$
6. 3, 3
7. square
8. like
9. $6x^2 + 7x + 2$
10. $2x$, 3
11. $2x$, 3
12. 5, $4x$
13. 8, 12
14. 22
15. $8x^2 + 22x + 15$
16. $8x^2 + 36x + 28$
17. $7x^2 + 31x + 12$
18. $18x^2 + 15x + 3$
19. $6x^2 + 32x + 10$
20. $2x$, 5
21. (c) trinomial
22. x, x, x
23. - , +, -
24. (c) all
25. $x + 3$, $x + 3$, $x + 3$
26. x, c
27. 4, 5
28. $4xa + 12a + 5xb + 15b - xc - 3c$
29. $6xa + 3a + 4xb + 2b + 6x + 3$
30. $4xa + 2a + 4xb + 2b + 4xc + 2c$
31. $3xa + 3a + 2xb + 2b - 3xc - 3c$
32. $10xa + 2a + 25xb + 5b - 10xc - 2c$
33. *"Be the first to the field and the last to the couch."*

Lesson 4: *Algebra*
Divide Polys

1. smaller
2. fraction
3. smaller
4. reduction
5. solution
6. $\frac{2x^2 + 2x}{2x}$
7. $\frac{2x^2}{2x} + \frac{2x}{2x}$
8. x, x
9. 1
10. 1
11. 1
12. $3x + 2$, $3x^2$, $2x$, 3, 2
13. $3x^2 + 2$
14. $5x + 1$
15. $4x + 3$
16. $\frac{24x^2 - 40x + 16}{4x}$
17. $24x^3$, $40x^2$, $16x$
18. 4, x
19. 1
20. 1
21. $6x^2 - 10x + 4$
22. (b) $x^4 - 2x^2 + 4$

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23. (d) $5x^2 + 4x + 2$
24. $4x^2 + 3x + 5$
25. *"Laziness may appear attractive, but work gives satisfaction."*



Lesson 5: ***Algebra***
Long Division Polys

1. traditions
2. tradition
3. dictate
4. something inherited and passed down from preceding generations
5. long
6. 2
7. divisor
8. dividend
9. 123
10. quotient
11. 131
12. 111
13. 125
14. $2x + 4$
15. first
16. x
17. quotient
18. $x + 2$
19. (d) $x + 3$
20. $x + 7$
21. $x - 2$
22. $24x^3 - 40x^2 + 16x$
23. $4x$
24. $6x^2$
25. $6x^2 - 10x + 4$
26. (c) $x^2 - 2x + 3$
27. $x^2 + x + 1$
28. $2x^2 + x - 3$
29. $3x^3 + 4x^2 + 6x - 2$
30. *"He who goes the wrong road must go the journey twice."*

Ask for your QUIZ over Section 1.
Reminder: Students who score 85% or higher on the three section quizzes may be exempt from the chapter test!

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