ACTIVITY ANSWER KEY

Chapter 1, Section 3

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

Lesson 11: *Predictions*
Pattern Problems

1. thinking
2. sugar cubes
3. exposed
4. initial
5. Three
6. six
7. layer
8. 4
9. 9
10. 6
11. congruent
12. initial
13. 3
14. 6
15. 9
16. 6
17. (c) 4
18. (c) 4
19. *"All of a man's deeds, good or bad, will come to light."*

Lesson 12: *Predictions*
Pattern Problems, Too

1. mathematical model
2. formula
3. conjecture
4. conjecture
5. check
6. checking
7. layer
8. cubes
9. number
10. results
11. pattern, layer
12. 1, 3, 6, 10
13. formula
14. mathematical (or workable)
15. letter
16. n
17. trial-and-error
18. value
19. 2, 3
20. $2n + 1$
21. $n(n+1)$
22. derive
23. (b) False
24. (a) True
25. 2
26. $n(n+1)/2$
27. checked
28. 100th; 4,095
29. cylinder
30. 2
31. $n(0) + 2$
32. $2n + 1$
33. (c) $4n$
34. (d) 36 cabbages
35. *"We sometimes have trials in our lives because we fail to learn from the errors of the past."*

Lesson 13: *Predictions*
Multiple Predictions

1. outcome
2. probability
3. multiple
4. 8
5. four
6. (a) True

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7. sixteen
8. ratio
9. $^1/_8$
10. $^1/_{128}$
11. (b) False
12. blue
13. $^2/_7$
14. $^1/_{112}$
15. (c) 0
16. (a) $^1/_{84}$
17. *"Proper preparation multiplies your chances of success."*



Lesson 14: *Predictions*
What are the Odds?

1. (b) False
2. odds
3. favorable
4. favorable
5. $^1/_2$
6. $^1/_2$
7. even (or one to one)
8. $^1/_{99}$
9. $^1/_9$
10. against
11. $^{21}/_5$
12. 25
13. dividing
14. 5
15. 1 to 1 (or even [same] odds)
16. 1 to 1
17. (b) $^3/_5$
18. (c) $^3/_1$
19. (d) $^5/_3$
20. *"A proper attitude will increase the odds of happiness."*



Lesson 15: *Predictions*
Encryption

1. code
2. writings
3. hieroglyphics, cuneiform, mathematical
4. two
5. (a) True
6. advanced
7. stars
8. Pythagorean Theorem
9. numbers
10. Romans
11. monuments
12. entire (or whole)
13. six
14. numerical
15. 50
16. 1
17. 500
18. 5
19. 100
20. 10
21. 6
22. 9
23. 700
24. 410
25. 887
26. 448
27. break
28. mathematical
29. value
30. adding
31. π or pi
32. encrypted
33. Encrypted
34. code
35. letter
36. divide
37. 18, 19
38. God Bless America
39. (c) Navajo Indians
40. (a) 45.67; (b) 10.85; (c) 106.52
41. *"The things of this world cannot be made known without a knowledge of mathematics."*

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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