ACTIVITY ANSWER KEY

Chapter 2, Section 1

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

Lesson 1: *Geometry*
Similar and Congruent

1. (a) shape
2. Congruent
3. straight edge
4. straight edge
5. compass
6. If two corresponding sides and the angle that is included between them of one triangle are congruent to two sides and the angle that is included between them of another triangle, then the two triangles are congruent.
7. Side-Angle-Side
8. corresponding
9. Hash marks
10. True
11. False
12. Side-Side-Side
13. sides
14. corresponding
15. If two corresponding angles and the included side of one triangle are congruent to two corresponding angles and the included side of another triangle, the two triangles are congruent.
16. one
17. two
18. (a) A-S-A
19. neither; (wording may vary) there are no corresponding equal angles or sides
20. (a) A-A-A
21. (a) A-A-A
22. (f) all of these
23. (d) S-S-S
24. (a) A-A-A
25. (a) A-A-A
26. (d) S-S-S
27. (b) A-S-A
28. No
29. *"Hide not your talents."*

Lesson 2: *Geometry*
Special Triangles

1. Right, wrong
2. 90; 90
3. hypotenuse
4. leg
5. 30°, 60°, 90°
6. 30 - 60 - 90
7. $\sqrt{3}$ units
8. Pythagorean
9. 2
10. 30
11. (d) 15 units
12. $5\sqrt{3}$
13. 8 units
14. 1.73
15. 45 - 45 - 90
16. 45°, 45°, 90°
17. isosceles right triangle
18. 6
19. $3\sqrt{2}$
20. (b) $2\sqrt{2}$ cm
21. *"You are always right to refuse to do wrong."*

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Lesson 3: *Geometry*
Special Case Similarity

1. calculated
2. similar
3. obey
4. sides
5. ratio
6. Proportion
7. 30 - 60 - 90
8. (a) $12\sqrt{3}$, (b) 12, (c) $12\sqrt{3}$
9. 6
10. (d) $5\sqrt{3}$
11. similar
12. 10, $x = 5$
13. x, $x = 3\sqrt{2}$
14. (c) special case
15. *"Wise people learn from the past to avoid harm in the present."*

Lesson 4: *Networks*
Networks

1. network
2. Germany
3. two
4. allegiance; protection
5. bridges
6. Leonhard Euler; network
7. picture
8. Kšnigsburg
9. seven; four
10. vertex
11. odd
12. even
13. False
14. two
15. starting, stopping
16. even
17. Euler
18. (a) a, b, c, d
19. (c)
20. Euler circuits
21. (a) True
22. (b) False
23. is not
24. Yes; Yes
25. *"Working together helps everyone attain the goal."*

Lesson 5: *Networks*
Other Networks

1. (b) False
2. miser
3. avoid; least
4. cheapest
5. city streets
6. minutes
7. traffic
8. lowest
9. rule of thumb
10. F
11. 12
12. 10
13. quickest
14. 25 minutes
15. Restrictions
16. greatest
17. 7 minutes.
18. (b) 8
19. (b) Start - F - G - M - S - T - U - V - Finish
20. *"The opportunities in life are limitless."*

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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