Form A

Part I – Selected Response

1. A 7a. TRUE

2. C 7b. FALSE

3. B 7c. TRUE

4. D 7d. FALSE

5. A, C, E, F

6. C

Part II – Constructed Response

1. *x* = 16

2. *y* = 18

3. $13.32; see student work

4. Shawna (1.25 laps/min < laps/min)

5. 2 : 3

6. 5 : 4

7.  corresponds to 

  corresponds to 

  corresponds to 

 

 

 

 Congruent because all corresponding

 sides and corresponding angles are

 congruent.

8. *x* = 21; see student work

9. *a* = 22 and *b* = 13; see student work

10. 48 feet; see student work

11. a. 4 : 3

 b. 4 : 3

 c. 16 : 9

 d. 84 *cm*; see student work.

12. Kia did not calculate 32 correctly.

 The ratio of their areas is 1 : 9 which

 means the area is 36 *in*2. See student

 work.

13. 62.5 miles; see student work

Part III – Problem Solving

Answer: The shadow would be 32 feet long.

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