

HSPE Practice Test B Geometry

Name: _____

Class: _____

Teacher: _____

Period: _____



Student ID

Directions: Please record your answers from the test onto this answer sheet. You will turn in the test, any scratch paper you have used, and this answer sheet. Please be sure your work is neatly shown on your test.

1 (A) (B) (C) (D)

2 (A) (B) (C) (D)

3 rhombus ? (Y) (N)

_____ (0) (1)

4 _____ (0) (1)

5 _____ (0) (1)

6 _____ (0) (1)

7 $\angle X =$ _____ (0) (1)

Type of quadrilateral: _____ (0) (1)

8 J _____ (0) (1)

K _____ (0) (1)

9 location T: _____ (0) (1)

location T: _____ (0) (1)

10 center: _____ (0) (1)

11 P _____ (0) (1)

12 R _____ (0) (1)

13 _____ (0) (1)

14 _____ (0) (1)

15 equilateral ? (Y) (N)

reasoning: _____

(0) (1)

equiangular ? (Y) (N)

reasoning: _____

(0) (1)

16 tip box without removing it? (Y) (N)

reasoning: _____

(0) (1)

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1 (A) (C) (D)

2 (A) (B) (C)

3 rhombus? (N)

Diagonals are perpendicular
 $10^2 + 24^2 = 26^2$

0 1

4 VT = 28

0 1

5 62°

0 1

6 86.6 ft²

0 1

7 ∠X = 55°

0 1

Type of quadrilateral: trapezoid

0 1

8 J (-3, 2)

0 1

K (-1, 5)

0 1

9 location T: (7, 0) or (1, 8) or (-11, -4)

0 1

location T: (7, 0) or (1, 8) or (-11, -4)

0 1

10 center: (2, 2)

0 1

11 P (1.5, 2) or (1 ½, 2)
values close credited

0 1

12 R (8.9, 6)

0 1

13 1911, 1921, 1931, 1941
(must have all to be credited with point)

0 1

14 88 ft³

0 1

15 equilateral? (Y)

reasoning: The sides of the squares, CD, are equal to the legs of each obtuse isosceles triangle. The base of the obtuse triangle must be longer than its legs, so the hexagon is not equilateral.

0 1

equiangular? (N)

reasoning: Each triangle formed by connecting the outside vertices of the squares is an obtuse triangle, ΔABC, with angles 120°, 30°, 30°. This means that the angle of each vertex of the hexagon is 120°, making the hexagon equiangular.

0 1

16 tip box without removing it? (N)

reasoning: The diagram shows the box as it is being tipped. The widest (or tallest) the box will be as it is tipping is the length of the diagonal. The diagonal is 5.83 ft, so Brady will be able to tip the box.

0 1

