

# HSPE Practice Test A 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 Completing Proof

reason 3 \_\_\_\_\_  0  1

reason 4 \_\_\_\_\_  0  1

statement 5 \_\_\_\_\_  0  1

reason 5 \_\_\_\_\_  0  1

2  A  B  C  D

Inverse  T  F

Explain \_\_\_\_\_  0  1

3  A  B  C  D

4  A  B  C  D

5 \_\_\_\_\_

\_\_\_\_\_  0  1

6  A  B  C  D

7  A  B  C  D

8 \_\_\_\_\_  0  1

9  A  B  C  D

10  A  B  C  D

11 statement 1. \_\_\_\_\_  0  1

reason 2. \_\_\_\_\_  0  1

reason 3. \_\_\_\_\_  0  1

12  A  B  C  D

13  A  B  C  D

14 \_\_\_\_\_  0  1

15  A  B  C  D

16 \_\_\_\_\_  0  1

17 rectangle?  Y  N

reasoning: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_  0  1

18 \_\_\_\_\_  0  1

19 \_\_\_\_\_  0  1

20 \_\_\_\_\_  0  1

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**1** **Completing Proof**

reason 3 Base angles of an isosceles triangle are congruent  0  1

reason 4 Given  0  1

statement 5  $\angle MHF \cong \angle FKM$   0  1

reason 5 Transitive property  0  1

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

Inverse  (T)  (C)

Explain Counter example – Bill is 14 years old. He is not 13 but he is a teenager  0  1

3  (A)  (B)  (C)  (D)

4  (A)  (B)  (C)  (D)

5 Since we don't know that  $h \parallel k$ , we don't know that  $\angle 2 \cong \angle 3$   0  1

6  (A)  (B)  (C)  (D)

7  (A)  (B)  (C)  (D)

8 136°  0  1

9  (A)  (B)  (C)  (D)

10  (A)  (B)  (C)  (D)

11 statement 1.  $\overline{NL} \cong \overline{LN}$   0  1

reason 2.  $\triangle KLN \cong \triangle MLN$   0  1

reason 3. SAS  0  1

12  (A)  (B)  (C)  (D)

13  (A)  (B)  (C)  (D)

14 200  0  1

15  (A)  (B)  (C)  (D)

16  $TP = \sqrt{285} \text{ ft}^2$  or  $5\sqrt{113} \text{ ft}^2$  or  $53.15 \text{ ft}^2$   0  1

17 rectangle?  (Y)  (N)

reasoning: Wall is not a rectangle because the

diagonal should be 25 feet long

0  1

18 Horizontal distance is 101,278 feet  0  1

19  $\cos x = 24/26$  or  $12/13$  or  $0.9231$   0  1

20 credit range of values from 56° to 58°  0  1

*(actual answer is 58° working with stored digits)*