lame _____

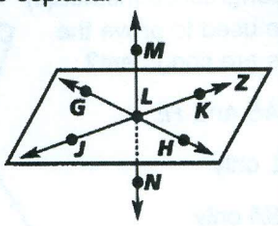
)ate _____ Score _____ %

Assessment A

Geometry Basics

Shade in the circle of the correct answer.

1. Which two lines are coplanar?



(A) $\overleftrightarrow{GH}$ and $\overleftrightarrow{JK}$

(B) $\overleftrightarrow{JK}$ and $\overleftrightarrow{MN}$

(C) $\overleftrightarrow{LK}$ and $\overleftrightarrow{LJ}$

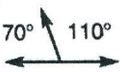
(D) J and K

2. Which point is the vertex of $\angle HLK$?

(A) G (B) H

(C) L (D) K

3. Which describes these two angles?



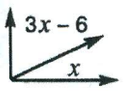
(A) complementary

(B) supplementary

(C) vertical

(D) None of these answers.

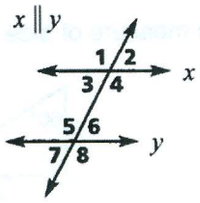
4. These two angles are complementary. What is the measure of x?



(A) 24° (B) 32°

(C) 45° (D) 90°

5. Which pair of angles is congruent?



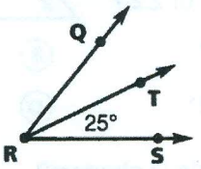
(A) $\angle 1$ and $\angle 2$

(B) $\angle 1$ and $\angle 7$

(C) $\angle 5$ and $\angle 7$

(D) $\angle 5$ and $\angle 8$

6. Given: $\overrightarrow{RT}$ bisects $\angle QRS$. $m\angle TRS = 25°$. Which is true?



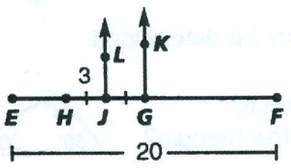
(A) $m\angle QRS = 25°$

(B) $m\angle QRT = 50°$

(C) $m\angle QRS = 50°$

(D) $m\angle TRS + \angle QRS = 90°$

7. Given: $\overrightarrow{GK}$ bisects $\overline{EF}$. $\overrightarrow{JL}$ bisects $\overline{HG}$. $EF = 20$. $HJ = 3$. How long is $\overline{EH}$?



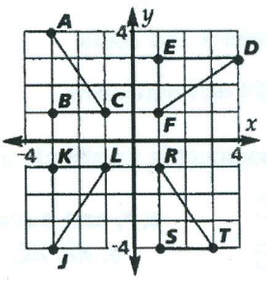
(A) 3

(B) 4

(C) 5

(D) 10

8. Which triangle has these vertices: (1, −1), (1, −4), and (3, −4)?



(A) $\triangle ABC$

(B) $\triangle DEF$

(C) $\triangle JKL$

(D) $\triangle RST$

9. Which triangle is a reflection of $\triangle ABC$ over the x-axis?

(A) $\triangle ABC$ (B) $\triangle DEF$

(C) $\triangle JKL$ (D) $\triangle RST$

10. Which point is the midpoint between (−1, 1) and (−5, −7)?

(A) (−6, −8) (B) (−6, −6)

(C) (−4, −6) (D) (−3, −3)