

# PAP Geometry

## Let's Review Unit One

You will be in groups of 4.

Each person in your group needs a sheet of paper to work and write the answer down.

When a problem is given, the entire group must have an answer written. The captain will run to the front with all papers and ring the bell.

I will check to make sure every member of the group has correct answers.

1st team- 3 Points, 2nd team- 2 Points, 3rd team- 1 Point

Sep 4-9:22 AM

Sep 4-9:25 AM

1 2 3 4 5 6

### The Questions

7 8 9 10 11 12



1

M is the midpoint of  $\overline{JK}$ . The coordinates of J and K are  $(-6,4)$  and  $(-3,-8)$ , respectively. What are the coordinates of point M?

**$(-4.5, -2)$**



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2

H is the midpoint of  $\overline{JK}$ . The coordinates of J and H are (2, -7) and (7, 3). What are the coordinates of point K?

$$\begin{aligned} 7 &= \frac{x+2}{2} & 3 &= \frac{y+(-7)}{2} \\ 14 &= x+2 & 6 &= y+(-7) \\ 12 &= x & 13 &= y \end{aligned}$$

(12, 13)

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3

Find the length of  $\overline{AB}$  if A(-3,2) and B(5,-8).

$$2\sqrt{41}$$

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4

Suppose B is between A and C. Let  $AB=7x+3$ ,  $BC=3x-8$ , and  $AC=45$ . Find x and AB.

x=5 and AB=38

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5

P is in the interior of  $\angle ABC$ . Let  $m\angle ABP=(4x+9)^\circ$ ,  $m\angle PBC=(5x-4)^\circ$ , and  $m\angle ABC=149^\circ$ . Find x and  $m\angle PBC$ .

x=16  $m\angle PBC=76^\circ$

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6

$\overrightarrow{BD}$  bisects segment  $\overline{LK}$  at M.  
 $LM=2x+8$  and  $MK=3x-1$ . Find x  
 and LK.

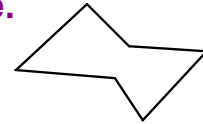
x=9 LK=52

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7

Classify the polygon by the  
 number of sides. State convex  
 or concave.



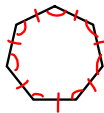
Hexagon; concave

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8

State whether the polygon is equiangular,  
 equilateral, regular, or none of these.



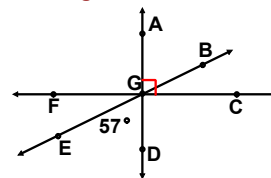
Heptagon; Regular

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9

Use the diagram to find the measure of the given angle.



Find  $\angle FGE$  and  $\angle CGD$

33° and 90°

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**10**

Use the diagram to find the measure of the given angle.

Find  $\angle CGD$  and  $\angle AGB$

**90° and 64°**

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**11**

1. Name 3 collinear points.
2. Name Plane BEF another way.

1. B,E,D or A,E,C
2. R or DEF

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**12**

1. Name the intersection of line  $l$  and plane  $R$ .
2. Name a point that is non-coplanar to plane  $R$ .

1. point E
2. A or C

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**Study for your Test**

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