

Geometry Semester#1 Final Study Guide - Chapters 1-6

#1-3: Use this diagram to answer True or False:



1. \overline{DC} is perpendicular to line n .

TRUE

2. $\angle FBG$ and $\angle FBJ$ are complementary.

FALSE

3. Points D , J , and F are collinear.

FALSE

4. Two distinct planes intersect. Describe their intersection. Draw a sketch to support your answer.



IF 2 planes intersect, then they intersect at a line.

5. Q is between P and R . $PQ = 2w - 3$, $QR = 4 + w$, $PR = 34$. Find the value of w . Then find the lengths of PQ and QR .



$$2w - 3 + 4 + w = 34$$

$$w = 11$$

6. Find the midpoint of the segment with endpoints $(-3, -8)$ and $(-9, -5)$.

$$\left(\frac{x_1 + x_2}{2}, \frac{y_1 + y_2}{2} \right) = \left(\frac{-3 + -9}{2}, \frac{-8 + -5}{2} \right) = \left(-6, -\frac{13}{2} \right)$$

7. Find the distance between the points $(2, 1)$ and $(-2, -6)$.

$$d = \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2} = \sqrt{(-2 - 2)^2 + (-6 - 1)^2} = \sqrt{65}$$

8. $m\angle JHI = (2x + 7)^\circ$ and $m\angle GHI = (8x - 2)^\circ$ and $m\angle JHG = 65^\circ$. Find $m\angle JHI$ and $m\angle GHI$.

$$2x + 7 + 8x - 2 = 65$$

$$\downarrow$$

$$x = 6$$



$$m\angle JHI = 19^\circ$$

$$m\angle GHI = 46^\circ$$

9. In the figure (not drawn to scale), \overline{MO} bisects $\angle LMN$, $m\angle LMO = (7x - 27)^\circ$, and $m\angle NMO = (x + 57)^\circ$. Solve for x and find $m\angle LMN$.



$$7x - 27 = x + 57$$

$$\downarrow$$

$$x = 14$$

$$m\angle LMN = 142^\circ$$

10. Name a polygon with 6 sides.

Hexagon

11. If $\angle R$ and $\angle S$ are supplementary and $m\angle R = 36^\circ$, then $m\angle S = ?$

$$144^\circ$$

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CH Cherryholmes



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