Key

Quiz 1.1-1.3 Review

Wednesday, August 24, 2022 9:06 PM

1.) Give another name for line J. $\overleftrightarrow{GI}$ or $\overleftrightarrow{IG}$

2.) Name the intersection of line J and line DF. Point G

3.) Name 3 non-collinear points. H, D, G or H, I, K ect...

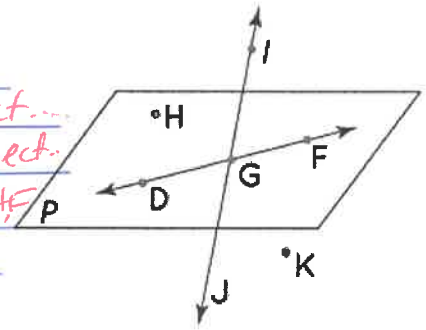
4.) Give another name for plane P. Plane HGF or HDG, ect.

5.) Name two points that are coplanar to point D on Plane P. HG or HF

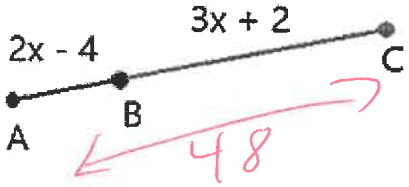
6.) Name the intersection of Plane P and line J. Point G

7.) Name 3 collinear points. D, G, F

8.) Give another name for Line DF. $\overleftrightarrow{DG}$ or $\overleftrightarrow{GD}$ or $\overleftrightarrow{GF}$, ect...



9.) If AC is 48 determine the value of x. (10)



$2x-4+3x+2=48$

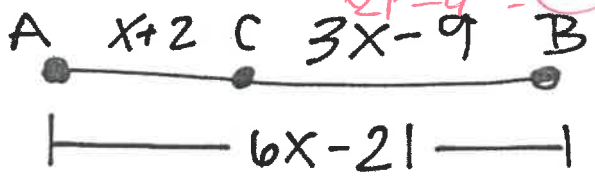
$5x-2=48$

$+2 \quad +2$

$\frac{5x}{5}=\frac{50}{5}$

$x=10$

10.) Determine the length of CB.



$3(7)-9=12$

$21-9=12$

$x+2+3x-9=6x-21$

$4x-7=6x-21$

$-4x \quad -4x$

$-7=2x-21$

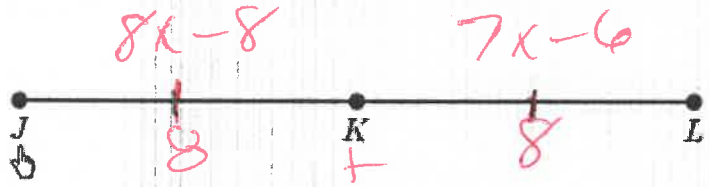
$+21 \quad +21$

$\frac{14}{2}=\frac{2x}{2}$

$7=x$

11.) Find the length of KL and JL.

K is the midpoint of $\overline{JL}$



If:

$JK = 8x - 8$ and

$KL = 7x - 6$

Find JL.

$8x-8=7x-6$

$-7x \quad -7x$

$1x-8=-6$

$+8 \quad +8$

$x=2$

$8(2)-8=16-8=8$ for JK

$7(2)-6=14-6=8$ for KL

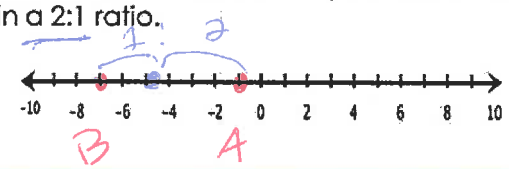
$8+8$

So $JL=8+8=16$

12.)

Warm up

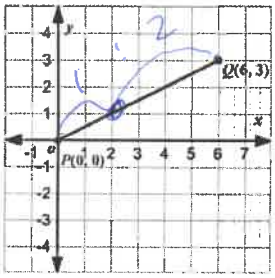
A is at -1, and B is at -7.
Find the point, T, so that T partitions A to B in a 2:1 ratio.



-1 ——— -7
2 : 1
+ total parts →

$2(-7) + 1(-1)$
$-14 + -1$
$\frac{-15}{3} = -5$

13.) Find the location of point X on the line segment PQ if the ratio is 1:2.



$(\underset{x}{0}, \underset{y}{0})$ $(\underset{x}{6}, \underset{y}{3})$

x's first

0 ——— 6
1 : 2
+ total parts →

$(1)(6) + (2)(0)$
$6 + 0$
$\frac{6}{3} = 2$
$x = 2$

y's next

0 ——— 3
1 : 2
+ total parts →

$1(3) + 2(0)$
$3 + 0$
$\frac{3}{3} = 1$
$y = 1$

Ordered pair is $(\underset{x}{2}, \underset{y}{1})$