**Spiral Review:**

**Solve for x.**

1. $8x - 4 = 6x + 1$

$+4 \quad +4$

$8x = 6x + 5$

$-6x \quad -6x$

$2x = 5$

$\frac{2x}{2} = \frac{5}{2}$

$x = \frac{5}{2}$

2. $3(x - 1) = 9$

$3x - 3 = 9$

$+3 \quad +3$

$3x = 12$

$\frac{3x}{3} = \frac{12}{3}$

$x = 4$

3. $9(x + 2) = -3(x - 4)$

$9x + 18 = -3x + 12$

$+3x \quad +8x$

$12x + 18 = 12$

$-18 \quad -18$

$12x = -6$

$\frac{12x}{12} = \frac{-6}{12}$

$x = -\frac{1}{2}$

4. $10x - 5 + 2x = 4x - 6$

$12x - 5 = 4x - 6$

$-4x \quad -4x$

$8x - 5 = -6$

$+5 \quad +5$

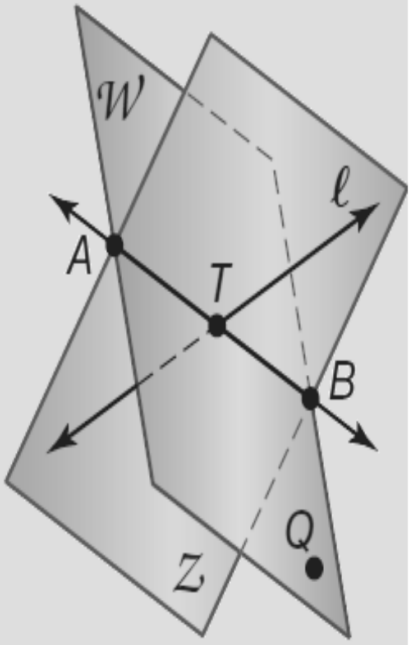
$8x = -1$

$\frac{8x}{8} = \frac{-1}{8}$

$x = -\frac{1}{8}$

**Review 1.1**

## Refer to the figure for Questions 1–5.




1. Name three collinear points.

A, T, B

2. What is another name for $\overleftrightarrow{AB}$?

$\overleftrightarrow{AT}$

3. Name a line in plane $Z$.

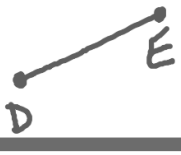
$\overleftrightarrow{AT}$, $\ell$

4. Name the intersection of planes $Z$ and $W$.

$\overleftrightarrow{AB}$

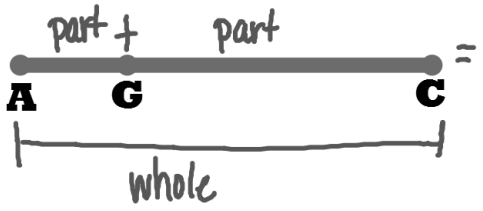
5. How many lines are in plane $Z$?

# Section 1.2 Linear Measure

| term | example | name |
|---|---|---|
| **line segment**<br>has endpoints<br>part of a line<br>CAN be measured |  | $\overline{DE}$, $\overline{ED}$<br>(2 letters) |

| | | |
|---|---|---|
| $\overleftrightarrow{GH}$ | $\overline{GH}$ | GH |
| line | line segment | distance from G to H |

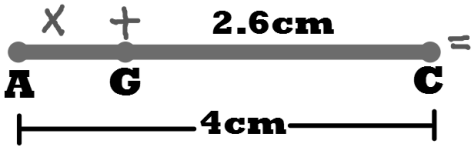
- **Point G is between A & C if A, C, & G are collinear and AG+GC=AC**




---

**Examples:**

**1. Find AG.**

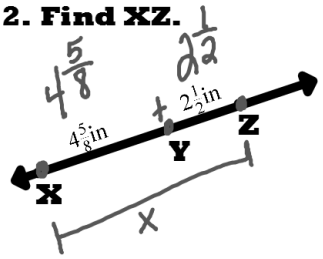



$x + 2.6 = 4$

$-2.6 \quad -2.6$

$x = 1.4\text{ cm}$

**2. Find XZ.**



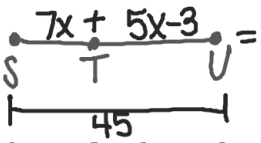

$4\frac{5}{8} + 2\frac{1}{2} = x$

$\frac{37}{8} + \frac{5 \cdot 4}{2 \cdot 4} \quad \frac{20}{8} + \frac{37}{8} = \frac{57}{8}$ in

$7\frac{1}{8}$ in

**3. Find x and ST if T is between S and U.**

**a.) ST=7x, SU=45 and TU=5x-3.**




$7x + 5x - 3 = 45$

$12x - 3 = 45$

$+3 \quad +3$

$\frac{12x}{12} = \frac{48}{12}$

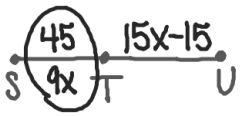
$x = 4$

$ST = 7x$

$= 7(4)$

$ST = 28$

**b.) ST = 45, ST = 9x, TU = 15x - 15**




$ST = 45$

$\frac{9x}{9} = \frac{45}{9}$

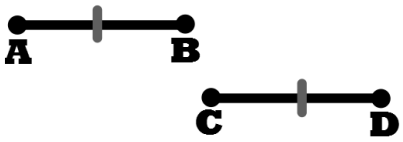
$x = 5$

- **congruent: having the same measure**

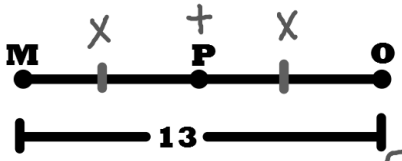
$\overline{AB} \cong \overline{CD}$

"is congruent to"

$\simeq$




**4. Find MP.**




$x + x = 13$

$\frac{2x}{2} = \frac{13}{2}$

$x = \frac{13}{2}$ or 6.5

**Turn in:**
**p. 18 (5 - 9)**

**Homework:**
**p. 18 (14- 18 evens, 21- 26, 28- 32 evens)**