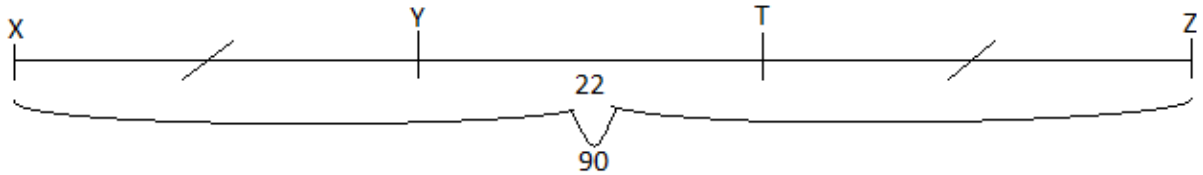


Answer on Question #80740 – Math – Geometry

Q8uestion

Y is between X and Z. T is between Y and Z. If $XZ = 90$, $YT = 22$, and $XY = TZ$, what is XT ?



Solution

$$XZ = XY + YT + TZ;$$

$$XY = TZ.$$

Next,

$$90 = XY + 22 + TZ;$$

$$XY + TZ = 90 - 22;$$

$$XY + TZ = 68;$$

$$XY = TZ = 68/2 = 34;$$

$$XT = XY + YT = 34 + 22 = 56.$$

Answer: $XT = 56$.