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## Chapter 7 SIMLLZRHYY \& Chapter $q$ TRansformations

## ChaP IER 7: SIMILIRIIY

1. Are the $\Delta$ 's similar? If so, by what method?
2. $\Delta$ WIN $\sim \Delta T E R$. Find the value of $x$.

3. Given the diagram below, find EF.


$$
\begin{aligned}
\frac{x}{8} & =\frac{x+2}{12} \\
12 x & =8(x+2) \\
12 x & =8 x+16 \\
4 x & =16 \\
x & =4 \\
F G & =4+2 \text { s. } F G=6
\end{aligned}
$$

5. Given the diagram below and $\mathrm{JK}=4$,
$\mathrm{KM}=6$, and $\mathrm{JL}=10$, find LN .
6. Given the diagram below and $\mathrm{JK}=4$,
$K M=6$, and $K L=10$, find $M N$.


ChaP IER q: TRansformations
8. When the point $(3,7)$ is reflected over the y -axis, what is the resulting image?

9. When the point $(-2,3)$ is rotated $-90^{\circ}$, what is the resulting image?

11. What is the scale factor if the center is $(-2,1)$ ?

12. Identify the coordinates of Point E along $\overline{G O}$ where $\mathrm{G}(-8,-7)$ and $\mathrm{O}(8,5)$ such that the ratio of GE to EO is 3 to 1 .

This means pt. EIS $3 / 4$ of the way from $G$ to 0



