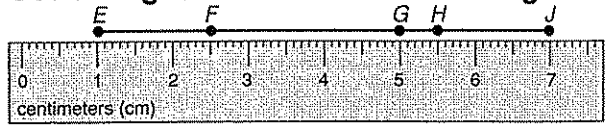


WS 1-2: Measuring and Constructing Segments - Reteach

Use the figure above to find each length.



1. EG 4cm 2. EF 1.5cm 3. FH 3cm

4. $5 + y = 7$
 -5
 $y = 2$
 Find JK. 2

5. $8 + z = 14$
 -8
 $z = 6$
 Find BC. 6

6. $20 + n = 2n - 1$
 $+1$ $-n$ $-n + 1$
 $21 = n$
 Find SV. 41 $n = 21$

7. $a + a + 6 = 36$
 $2a + 6 = 36$
 -6 -6
 $2a = 30$
 $a = 15$
 Find XY. 21

8. $90 + 45 = x$
 Find DF. 135

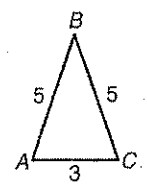
9. $y + 18 = 2y - 4$
 $+4$ $+4$
 $y + 22 = 2y$
 $-y$ $-y$
 $22 = y$
 Find ST. 22

Refer to triangle ABC for Exercises 10 and 11.

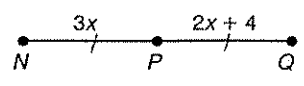
10. Sketch \overline{LM} that is congruent to \overline{AC} .

11. Use a ruler to draw \overline{XY} that is congruent to \overline{BC} .

12. Use a compass to construct \overline{ST} that is congruent to \overline{JK} .
SKIP



The **midpoint** of a segment separates the segment into two congruent segments. In the figure, P is the midpoint of \overline{NQ} .



$$3x = 2x + 4$$

$$-2x \quad -2x$$

$$x = 4$$

13. \overline{PQ} is congruent to \overline{NP} .

14. What is the value of x? $x = 4$

15. Find NP, PQ, and NQ. _____

$$\left\{ \begin{array}{l} NP = 3(4) = 12 \\ PQ = 2(4) + 4 = 12 \\ NQ = 12 + 12 = 24 \end{array} \right.$$