1-2 Practice
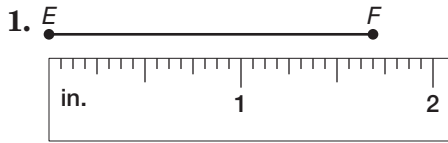
Linear Measure

Find the length of each line segment or object.
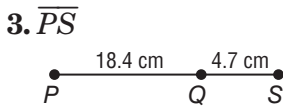
1. E —————————— F
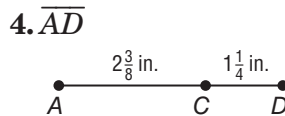
in.   1   2

$1\frac{11}{16}$ in.

2.

cm   1   2   3   4   5

42 mm

Find the measurement of each segment. Assume that each figure is not drawn to scale.

3. $\overline{PS}$

18.4 cm   4.7 cm
P   Q   S

23.1 cm

4. $\overline{AD}$

$2\frac{3}{8}$ in. $1\frac{1}{4}$ in.
A   C   D

$3\frac{5}{8}$ in.

5. $\overline{WX}$
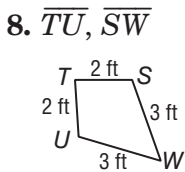
W   X   89.6 cm   Y
|← 100 cm →|
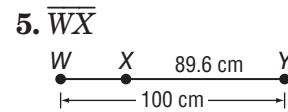
10.4cm

ALGEBRA Find the value of x and KL if K is between J and L.
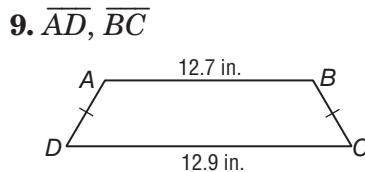
6. $JK = 6x$, $KL = 3x$, and $JL = 27$
3; 9

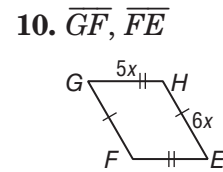7. $JK = 2x$, $KL = x + 2$, and $JL = 5x - 10$
6; 8

Determine whether each pair of segments is congruent.

8. $\overline{TU}$, $\overline{SW}$

T 2 ft S
2 ft   3 ft
U
3 ft   W

no

9. $\overline{AD}$, $\overline{BC}$

A   12.7 in.   B
D   12.9 in.   C

yes

10. $\overline{GF}$, $\overline{FE}$

G 5x H
     6x
F   E

no

11. **CARPENTRY** Jorge used the figure at the right to make a pattern for a mosaic he plans to inlay on a tabletop. Name all of the congruent segments in the figure.

$\overline{BC} \cong \overline{FE}$, $\overline{AB} \cong \overline{CD} \cong \overline{DE} \cong \overline{FA}$