

## Unit 3.1 Worksheet Answers

1. YES, linear scale factor =  $\frac{9}{2}$ , Answers vary, example similarity statement  $\rightarrow TSU \sim LKM$
2. NO
3. YES, linear scale factor =  $\frac{2}{1}$ , Answers vary, example similarity statement  $\rightarrow RSTU \sim WXYZ$
4.
  - a. Scale factor =  $\frac{5}{2}$
  - b.  $x = 27.5, y = 12, z = 65^\circ$
5.  $x = 13.5$
6.  $x = 9$
7.  $\overline{XY} = \frac{64}{9}$
8.  $\overline{YZ} = \frac{48}{5}$
9. *C and D*
10. *A, D and E*
11. Answers may vary
12. Answers may vary
13.  $x = 4$  so  $\overline{ST} = 8$  or  $x = 8$  so  $\overline{ST} = 28$
14.  $x = 15$  so  $\overline{EP} = 9$
15. 6