

Geometry Chapter 7 Pre-Test Answer Key

Lesson 7-1

1. 7 ft

2. 7.2 in, wide

3. $x = 10$

4. $\overline{FE} = 24$

5. $x = 6$, length = 30 ft, width = 12 ft

6. $\angle H = \angle Q$; $\angle E = \angle R$; $\angle F = \angle S$; $\angle K = \angle P$; $\frac{KL}{PS} = \frac{KM}{PQ} = \frac{LK}{QS} = \frac{KP}{SQ} = \frac{5}{4}$

7. 144 in.

8. $\angle H = \angle Q$ by Refl. Prop of \angle , $\triangle H \cong \triangle R$

9. $x = 6$, $SR = 36$, $RQ = 42$

10. $L = (9, 0)$, Scale Factor = $1/3$

11. $SH = 5.4$

12. $\left[3.2/5, -6/5 \right]$

13. $J' = (3, 4)$, $K' = (-6, 4/3)$, $M' = (8/3, -2)$

14. $T = 8$

15. $\angle B = \angle D$; $\angle R$; $\angle C = \angle F$
 $\angle A = \angle A$ Reflex Prop, Opp Comp.
 $\triangle A \cong \triangle R$

16. Length of car is 12 ft and 8 in.

17. $y = 0.75$, $BE = 1.25$, $CE = 1$

18. $\overline{FE} = 3$