

## Geometry Chapter 7 Pre-Test Answer Key

### Lesson 7-1

1. 7 ft

2. 7.2 in, wide

3.  $x = 22$

4.  $\overline{FD} = 24$

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

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

7. 144 in.

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

9.  $x = 6$ ,  $DE = 24$ ,  $EQ = 42$

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

11.  $BE = 5.4$

12.  $\left[ 3.275, -5.75 \right]$

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

14.  $T = 8$

15.  $\angle B = \angle D$ ;  $\angle R$ ;  $\angle C = \angle F$   
 $\triangle A = \triangle A$  Reflex Prop, OP Cong.  
 $\triangle A \cong \triangle A$  by ASA

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

17.  $y = 0.75$ ,  $BE = 1.75$ ,  $CE = 1$

18.  $\overline{DE} = 3$