

## Geometry Chapter 7 Pre-Test Answer Key

### Lesson 7-1

1.  $7 \text{ ft}$

2.  $7.2 \text{ in, wide}$

3.  $x = 22$

4.  $\overline{FD} = 24$

5.  $x = 6$ , length =  $30 \text{ ft}$ , width =  $12 \text{ ft}$

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.  $144 \text{ in.}$

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

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

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

11.  $BE = 5.4$

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

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

14.  $T = 8$

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

16. Length of car is  $12 \text{ ft}$  and  $8 \text{ in.}$

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

18.  $\overline{FD} = 3$