

## Homework Answers 5.2

### Ready

1.  $\angle S = 28^\circ$  and  $\angle R = 28^\circ$
2.  $\angle A = 30^\circ$
3.  $\angle A = \angle B = \angle C = 60^\circ$
4.  $\angle Q = 102^\circ$  and  $\angle R = 32^\circ$
5.  $\angle R = 34^\circ$  and  $\angle T = 119^\circ$  and  $\angle S = 27^\circ$
6.  $\angle E = 90^\circ$  and  $\angle EFH = 45^\circ$  and  $\angle EHF = 45^\circ$
7.  $\angle K = 30^\circ$  and  $\angle G = 60^\circ$  and  $\angle H = 90^\circ$
8.  $\angle M = 85^\circ$  and  $\angle L = 63^\circ$  and  $\angle N = 32^\circ$

### Set

9. Each face: Triangle base = 34.5 feet, triangle sides = 60.63 feet
10.  $\approx 1002.57 \text{ feet}^2$
11.  $22,375 \text{ feet}^2$
12.  $93,510.28 \text{ feet}^2$
13.  $1,040,811.292 \text{ feet}^3$
- 14.



### Go

15. 40 inches
16. 73 cm
17.  $2\sqrt{129} \text{ meters}$
18.  $6\sqrt{2} \text{ feet}$
19.  $5\sqrt{3} \text{ feet}$
20.  $8\sqrt{5} \text{ miles}$