Ratios and Proportions 3
Geometry

Use the table of information at the right to answer the following questions by giving a ratio in lowest terms.

1) Mountain View to Orem?

2) Provo to Pleasant Grove?

3) American Fork to Timpanogos?

4) Timpview to Provo?

5) Mountain View to Pleasant Grove?

The distribution below represents the number of wins the girl basketball teams of each school have had since 1994:

Orem:	132
Pleasant Grove:	150
Mountain View:	198
Timpanogos:	128
American Fork:	144
Provo:	135
Timpview:	147

Use two different methods to show whether the following ratios are proportional or not.

6) $\dfrac{24}{42}$ and $\dfrac{52}{91}$

7) $\dfrac{40}{32}$ and $\dfrac{48}{40}$

Solve each proportion for the missing value.

8) $\dfrac{11}{8} = \dfrac{y}{56}$

9) $\dfrac{9}{13} = \dfrac{108}{v}$

On a track team the ratio of runners to throwers is 5:2.

10) If there are 12 throwers, how many runners are on the team?

11) If there are 15 runners, how many throwers are on the team?

12) If there are 8 throwers on the team, how many throwers and runners are there total?

13) What is the smallest possible number of runners and throwers on the team?

14) If the ratio of throwers to jumpers on the team is 4:3, and there are 12 throwers, how many throwers and jumpers are there on the team?

15) If the ratio of runners and throwers to jumpers on the team is 8:3, and there are six jumpers, what is the number of people on the team?

16) A tree stands next to a building. The tree is 12 feet tall and its shadow is 64 feet long. The shadow of the building is 480 feet long. How tall is the building?