

Additional Practice

Investigation 1

Comparing and Scaling

1. a. According to the table, how long is a typical person's lifetime? Explain your reasoning.

Typical Person's Lifetime Activities

Activity	Number of Years
Sleeping	24.5
At work or school	13.5
Socializing	4.5
Watching TV	12
Reading	3
Eating	3
Bathing and grooming	1.75
Talking on the telephone	1
Miscellaneous activities*	9.5

* Such as housekeeping, shopping, waiting in lines, walking, driving, entertainment, and doing nothing

- b. Does a typical person spend more years watching TV or sleeping? Write a ratio that compares these two amounts.
- c. The number of years spent doing miscellaneous activities is about how many times the number of years spent socializing?
- d. What percent of the total number of years in a lifetime are spent sleeping? What percent are spent at work or school?
- e. About what fraction of a lifetime is spent watching TV and talking on the phone? What fraction is spent in miscellaneous activities?
- f. Make an interesting comparison statement about the data in the table. Tell why you think your comparison is interesting.

Skill: Ratios and Fractions**Investigation 1****Comparing and Scaling**

Write each ratio in simplest form.

1. $\frac{2}{6}$

2. 3 : 21

3. 16 to 20

4. $\frac{3}{30}$

5. 12 to 18

6. 81 : 27

7. $\frac{6}{28}$

8. 49 to 14

Compare each pair of numbers. Use $<$, $>$, or $=$.

9. $\frac{7}{8} \square \frac{3}{30}$

10. $\frac{4}{5} \square \frac{1}{2}$

11. $\frac{6}{12} \square \frac{4}{8}$

12. $\frac{7}{15} \square \frac{11}{15}$

13. $\frac{4}{5} \square \frac{6}{10}$

14. $\frac{7}{12} \square \frac{2}{3}$

15. $\frac{8}{15} \square \frac{1}{2}$

16. $\frac{10}{15} \square \frac{8}{12}$

17. $\frac{4}{9} \square \frac{7}{9}$

18. $\frac{2}{5} \square \frac{3}{8}$

19. $\frac{1}{2} \square \frac{11}{20}$

20. $\frac{7}{16} \square \frac{1}{2}$