6.1 Answers

32. 0.36

33. 34%

34. 0.89

35. $\dfrac{9}{25} = 0.36$

38. **a.** car: 0.2, school bus: 0.48, bicycle: 0.08

    b. car: $\dfrac{1}{5}$, school bus: $\dfrac{12}{25}$, bicycle: $\dfrac{2}{25}$
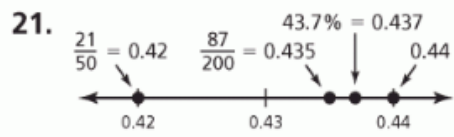
    c. 24%

    d. *Answer should include, but is not limited to:* A bar graph showing either the *number* of students or the *portion* of students in the class that get to school in various ways.

39. 40%

46. $-5x + 3$

48. $-3y + 15$

6.2 Answers

21.

$$43.7\% = 0.437$$

$$\frac{21}{50} = 0.42 \qquad \frac{87}{200} = 0.435 \qquad 0.44$$

22. yes

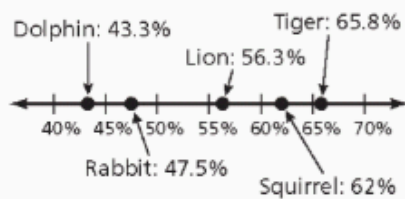**23.** Russia, Brazil, United States, India

24. $0.66, 66.1\%, \frac{2}{3}, 0.667$

31. a. Dolphin: $0.433 = 0.4\overset{\frown}{33} = 43.3\%$

Rabbit: $\dfrac{19}{40} = 40\overline{)19.000}^{\,0.475} = 0.4\overset{\frown}{75} = 47.5\%$

$$\begin{array}{r} -160 \\ \hline 300 \\ -280 \\ \hline 200 \\ -200 \\ \hline 0 \end{array}$$

Squirrel: $\dfrac{31}{50} = \dfrac{31 \times 2}{50 \times 2} = \dfrac{62}{100} = 62\%$

Dolphin: 43.3%   Tiger: 65.8%
Lion: 56.3%
40% 45% 50% 55% 60% 65% 70%
Rabbit: 47.5%
Squirrel: 62%

The animals, by sleep time, in order from least to greatest are dolphin, rabbit, lion, squirrel, and tiger.

b. *Sample answer:* I sleep 8 hours a day, or $\dfrac{1}{3}$ of a day.

Rewrite $\dfrac{1}{3}$ as a percent.

$$\dfrac{1}{3} = 3\overline{)1.00}^{\,0.33\ldots\ =\ 33.\overline{3}\%}$$

$$\begin{array}{r} -9 \\ \hline 10 \\ -9 \\ \hline 1 \end{array}$$

I sleep $33.\overline{3}\%$ of the day.

c. *Sample answer:* My sleep portion is the least.

33. yes

34. no

35. yes