Per: _____

2-9 Percents

Find the value requested. Round to the nearest tenth unless otherwise indicated.

1. 24 is what % of 144?

$$\frac{24}{144} = \frac{x \cdot 144}{144}$$

$$.16\overline{6} = x$$

24 is $\boxed{16.7\%}$ of 144.

2. 12 is 28% of what number?

$$\frac{12}{.28} = \frac{.28 \cdot x}{.28}$$

$$42.9 \approx x$$

12 is 28% of $\boxed{42.9}$

3. What is 32% of 81?

$$x = .32(81)$$

$$x \approx 25.9$$

$\boxed{25.9}$ is 32% of 81.

4. 150% of what number is 63?

$$\frac{1.5 \cdot x}{1.5} = \frac{63}{1.5}$$

$$x = 42$$

150% of $\boxed{42}$ is 63.

5. Amanda took a survey of students in her math class. 27 out of the 34 students said their family had a pet. What percent of the students had pets?

$$\frac{27}{34} = .7941$$

About 79.4% of the students had pets.