Study Guide for Percent Proportion Test   Key

Percent Proportion Worksheet

Use a proportion to answer the following.

1) 60% of 145 is what number? $x = 87$

2) 90% of 120. $x = 108$

3) What percent of 70 is 21? $x = 30\%$

4) What percent of 56 is 42? $x = 75\%$

5) 150 is 15% of what number? $x = 1000$

6) 198 is 33% of what number? $x = 600$

7) What number is 70% of 130? $x = 91$

8) 12% of 150 is what number? $x = 18$

9) What percent of 48 is 12? $x = 25\%$

10) 21 is 12% of what number? $x = 175$

11) 32% of 75. $x = 24$

12) What percent of 105 is 63? $x = 60\%$

13) 56% of 50 is what number? $x = 28$

14) What number is 48% of 175? $x = 84$

15) 264 is 55% of what number? $x = 480$

This is the total *of*

600 students were surveyed on their favorite outdoor activity.

The following table shows the percentages of students' outdoor activity.

Activity	Percentage (or number given)
Jogging	12%
Walking	60 students
Biking	25%
Skating	210 students
Other	108 students

Find the number (or percentage) of students for each category.

16) Jogging

17) Walking

18) Biking

19) Skating

20) Other

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(16) 12% of 600 students

$$\frac{x}{600} \bowtie \frac{12}{100}$$

$$100x = 12 \cdot 600$$

$$\frac{100x}{100} = \frac{7200}{100}$$

$$x = 72 \text{ students jogged}$$

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(17) 60 students out of 600 students

$$\frac{60}{600} \bowtie \frac{x}{100}$$

$$600x = 60 \cdot 100$$

$$\frac{600x}{600} = \frac{6000}{600}$$

$$x = 10\% \text{ walked}$$

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(18) 25% of 600 students

$$\frac{x}{600} \bowtie \frac{25}{100}$$

$$100x = 600 \cdot 25$$

$$\frac{100x}{100} = \frac{15000}{100}$$

$$x = 150 \text{ students biked}$$

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(19) 210 students out of 600 students

$$\frac{210}{600} \bowtie \frac{x}{100}$$

$$600x = 210 \cdot 100$$

$$\frac{600x}{600} = \frac{21000}{600}$$

$$x = 35\% \text{ skated}$$

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(20) 108 students out of 600 students

$$\frac{108}{600} \bowtie \frac{x}{100}$$

$$600x = 108 \cdot 100$$

$$\frac{600x}{600} = \frac{10800}{600}$$

$$x = 18\% \text{ did OTHER}$$