Name: .... Class: ....

Find what percent one number is of another: word problems

1. Telma has a collection of balloons. 15 out of the 25 balloons are red. What percentage of the balloons are red?

2. At Ginna's school prome, 20 out of the 50 students had chaperones. What percentage of the students had chaperones?

3. In order to select new school prefects, Javis' school did an election. 52 out of the 208 students took part in the vote. What percentage of the students voted?

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Find what percent one number is of another: word problems

1. Telma has a collection of balloons. 15 out of the 25 balloons are red. What percentage of the balloons are red?

Total number of balloons = 25.

Number of red balloons = 15.

Let **a** represent the percent.

Write a proportion to solve for **a**.

$$\frac{a}{100} = \frac{\text{number of red balloons}}{\text{total number of balloons}}$$

$$\frac{a}{100} = \frac{15}{25} \quad \text{----}> a \times 25 = 15 \times 100$$

$$a = \frac{15 \times 100}{25} = \frac{1500}{25} = 60$$

Therefore, the percentage of red balloons is 60%.

2. At Ginna's school prome, 20 out of the 50 students had chaperones. What percentage of the students had chaperones?

Total number of students = 50.

Number of students with chaperones = 20.

Let **a** represent the percent.

Write a proportion to solve for **a**.

$$\frac{a}{100} = \frac{\text{number of students with chaperone}}{\text{total number of students}}$$

$$\frac{a}{100} = \frac{20}{50} \quad \text{----}> a \times 50 = 20 \times 100$$

$$a = \frac{20 \times 100}{50} = \frac{2000}{50} = 40$$

Therefore, 40% of the students had chaperones.

3. In order to select new school prefects, Javis' school did an election. 52 out of the 208 students took part in the vote. What percentage of the students voted?

$$\text{percentage:} \quad \frac{a}{100} = \frac{\text{number of students who voted}}{\text{total number of students in school}}$$

$$\frac{a}{100} = \frac{52}{208} \quad \text{----}> a \times 208 = 100 \times 52$$

$$a = \frac{52 \times 100}{208} = \frac{5200}{208} = 25 \%$$