

Name: _____

Date: _____

Proportion When we see the same change in 2 quantities

Common Example You got $\frac{16}{20}$ on your math test. What percent is that?

You got 80% on your test.

$$\frac{16}{20} = \frac{x}{100}$$

total of the test

$$\frac{1600}{20} = \frac{20x}{20}$$

$$80 = x$$

percents are out of 100

Another Example You got 74% on your science test that was out of 25. How many marks did you receive on your test?

$$\frac{y}{25} = \frac{74}{100}$$

$$100y =$$

Another Example You received 30 marks on a test and got 75%. What was the test out of?

$$\frac{30}{b} = \frac{75}{100}$$

$$\frac{3000}{75} = \frac{75b}{75}$$

$$40 = b$$

The test was out of 40.