

Tables

Fractions “of” Numbers

Finding a fraction of a number, when the numerator (top number) is 1, is easy! You simply divide by the denominator (bottom number). For example:

$$\frac{1}{4} \text{ of } 16 = 16 \text{ divided by } 4 = 4$$

$$\frac{1}{2} \text{ of } 24 = 24 \text{ divided by } 2 = 12$$

$$\frac{1}{3} \text{ of } 21 = 21 \text{ divided by } 3 = 7$$

It gets slightly trickier when there's a numerator of more than one. But don't worry, you just divide by the bottom (denominator) first, then multiply by the top (numerator) afterwards!

Divide by the bottom, multiply by the top!

For example:

$$\frac{3}{4} \text{ of } 16 = 16 \text{ divided by } 4 (=4), \text{ then multiply } 4 \text{ by } 3 \text{ to get } 12$$

$$\frac{2}{3} \text{ of } 21 = 21 \text{ divided by } 3 (=7), \text{ then multiply } 7 \text{ by } 2 \text{ to get } 14$$

$$\frac{3}{8} \text{ of } 32 = 32 \text{ divided by } 8 (=4), \text{ then multiply } 4 \text{ by } 3 \text{ to get } 12$$

Percentages “of” Numbers

In order to find a percentage of a number, it's best to first convert that percentage into a fraction, so we can find the fraction of the number!

For example, 25% is the same as $\frac{1}{4}$ so we are really finding a quarter, which means dividing the number by 4. 75% is the same as $\frac{3}{4}$ so we are really finding $\frac{3}{4}$ of the number by first dividing by the bottom (4) then multiplying by the top (3). Look at the examples below:

$$10\% \text{ of } 150 = \frac{1}{10} \text{ of } 150 = 150 \text{ divided by } 10 = 15$$

$$20\% \text{ of } 35 = \frac{1}{5} \text{ of } 35 = 35 \text{ divided by } 5 = 7$$

$$40\% \text{ of } 20 = \frac{2}{5} \text{ of } 20 = 20 \text{ divided by } 5 (4) \text{ then } 4 \text{ multiplied by } 2 = 8$$