

What are two examples of when you'd need to find a percent of a number?

Hint. shopping, restaurants

1. Percentage discounts... 1.. $36 \%$ of l how much y gave!
2. Tipping. $15 \%$ is how much of you bill?

Determine the percent of each number:

$$
\begin{array}{ll}
\begin{array}{ll}
\text { a) } 35 \% \text { of } 15 \\
35 \% \div 100 & 0,35 \times 15 \\
=0.35 & =5.25
\end{array}
\end{array}
$$

$$
\begin{array}{lc}
\begin{array}{ll}
\text { b) } 230 \% \text { of } 35 \\
230 \% \div 100 & 2.30 \times 35 \\
2.30 & =80.5 \\
& \\
\text { c) } 0.1 \% \text { of } 5000 \\
0.1 \% \div 100 & 0.001 \times 5000 \\
0.001 & -5
\end{array}
\end{array}
$$

d) $21 / 2 \%$ of 20000

$$
\begin{aligned}
& 12 \frac{21 / 2 \% \text { of } 20000}{2.50} \div 100 \\
& 0.025
\end{aligned} \frac{0.025 \times 40000}{500}
$$

A survey showed that $1 / 4 \%$ of 800 students use inline skates to get to school. How many of the 800 students use inline skate to get to school?

$$
\begin{aligned}
& \quad \frac{1}{4} \% \\
& 1 \div 4 \\
& =0.25 \% \div 100 \\
& =0.0025
\end{aligned}
$$

$$
0.0025 \times 800
$$

$$
=2
$$

Two people inline skate to school.
2. $303 / 4 \%$ of 400 students surveyed said they own a cell phone. How many of the students own a cell phone? $30\left(\frac{3}{4} 4 \%\right.$
$3 \div 4=0.75$

$$
\begin{gathered}
3 \div 4=0.75 \\
30.75 \% \div 100 \\
\underline{0.3075}
\end{gathered}
$$

$$
\begin{aligned}
& 0.3075 \times 400 \\
& =123
\end{aligned}
$$

123 students have cellphones.

Adele invested $\$ 40.12$ in a savings plan at the beginning of the year. By the end of the year her investment was worth $120 \%$ of its original value. How much was her investment worth, to the nearest cent?

$$
\begin{aligned}
& 120 \% \div 100 \\
& 1.20 \\
& \rightarrow 1.20 \times 40.12 \\
& =48.144
\end{aligned}
$$

Her final investment is worth $\$ 48.14$ after 2 year.


