WHAT'S THE PERCENT? FRACTIONS AS PERCENTS

WHAT I HAVE



Spruce Grove, Alberta

High River, Alberta

According to the 2016 census, 13 420 people lived in High River, Alberta, and 36 135 people lived in Spruce Grove, Alberta.

How could you compare the populations of the two places?

HR:
$$\frac{13420}{49555} = 0.2708$$
 $\frac{36135}{49555} = 0.729$ Rep. 1. $\frac{36135}{49555} = 0.729$

WHAT PERCENT OF _____?"

AT THE opening night of a Play, 650 people Attended. The next night, 520 ppl attended. What percent of the opening night population?

WHAT WAS The Next night bol.
AS A PERCENT OF the orening night population.

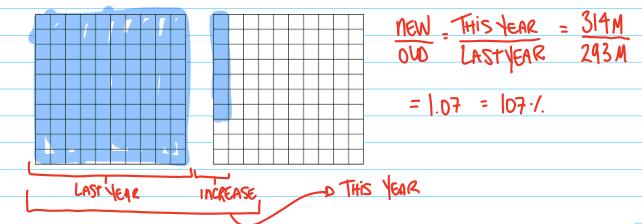
520 = 0.9 = 80.1. ORATIO COMPARING NEW: OLD
520 = NEW 4

Example 1

Last year, there were 293 million Snapchat users. This year, there were 314 million users.

What percent of the number of users last year is the number of users this year?

Use percent grid to represent the situation.



Example 2

Bitcoin is a digital currency. If you bought one bitcoin on October 24, it would have cost \$17 233 but if you were to buy one today, it would cost \$24 055.

What percent of the previous cost is the current cost?

$$\frac{\text{NEW}}{\text{OLD}} = \frac{\text{IS}}{\text{OF}} = \frac{\text{Current cost}}{\text{PREVIOUS}} = \frac{24 \text{ oss}}{17233} = 1.395 = \boxed{139.5\%}$$

What is the percent increase of a bitcoin in a month?

Example 3

The north magnetic pole has been drifting across the Canadian Arctic. It used to drift at an average speed of 10 km/year. Recently, it has been drifting at 50 km/year. The circumference of the Earth is 40 000 km.

What percent is the current speed of the original speed?

$$\frac{NEW}{ous} = \frac{IS}{OF} = \frac{50}{10} = 5.0 = 500.1$$

At 50 km/year, what percent of Earth's circumference will the pole drift in one year?

$$\frac{\text{WHAT YOW HAVE}}{\text{TOTAL}} = \frac{50 \, \text{km}}{40,000 \, \text{km}} = 0.00125 = 0.125 \cdot \text{/}.$$

Example 4

Active COVID-19 cases for the past 4 days:

Nov 24 = 1115 Nov 23 = 1549 Nov 22 = 1584

What is each day's number of cases represented as a percent of the previous day's number of cases.

Nov 21 = 1336 *

**WHAT REPORT of CHANGE?

NEW =
$$\frac{15}{00}$$

**WHAT REPORT of CHANGE?

**WHAT REPORT of CHANGE?

**WHAT REPORT of CHANGE?

**PREDION DAY?

**Nov 21 = 1336

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**Nov 21 = 1336

**Nov 22 : $\frac{1584}{1336}$

**INST. | **1.9./.)

What is each day's percent CHANGE?

100% = PREVIOUS DAY TOTAL

Nov 22 = 18.5%. Nov 23 = 2.2%. Nov 24 = 28.1%.

What is the average percent change over the 4 days?