

Activity 13 Assessment

Solving Percent Problems

| Solving Percent Problems | | | |
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| <p>Calculates a percent increase</p> <p>In 2020, the price of a block of butter was \$5.20. In 2 years, the price rose by about 11%. What was the price of butter in 2022?</p> <p>The price of butter in 2022 is $(100\% + 11\%) = 111\%$ of its price in 2020.</p> <p>So, the price of butter in 2022 is: 111% of \$5.20 $= 1.11 \times \\$5.20$ $\approx \\$5.77$</p> | <p>Calculates a percent decrease</p> <p>In 2001, the population of polar bears was about 1500. By 2010, the population had decreased by 40%. What was the population of polar bears in 2010?</p> <p>The population in 2010 was $(100\% - 40\%) = 60\%$ of its population in 2001.</p> <p>So, the population of polar bears in 2010 was: 60% of 1500 $= 0.60 \times 1500$ $= 900$</p> | <p>Solves a problem involving combined percents</p> <p>A person buys a Canadian flag for \$15.99. How much would it cost in your province?</p> <p>For example, in SK: 6% PST and 5% GST = 11% tax</p> <p>Total cost of the flag: 111% of \$15.99 $= 1.11 \times \\$15.99$ $\approx \\$17.75$</p> | <p>Solves a problem involving consecutive percents</p> <p>In 2015, the average price of a house in Canada was \$413 000. By 2020, this price had increased by about 28%. By the middle of 2022, the average price in 2020 had increased by a further 26%. What was the average price of a house in June 2022?</p> <p>In 2020, the price was: 128% of \$413 000 $= 1.28 \times \\$413\ 000$ $= \\$528\ 640$</p> <p>In 2022, the price was: 126% of \$528 640 $= 1.26 \times \\$528\ 640$ $= \\$666\ 086.40$</p> <p>The average price of a house in 2022 was about \$666 000.</p> |
| Observations/Documentation | | | |
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