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| **Solving Percent Problems** |
| Calculates a percent increaseIn 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?The price of butter in 2022 is (100% + 11%) = 111% of its price in 2020.So, the price of butter in 2022 is: 111% of $5.20= 1.11 × $5.20≈ $5.77 | Calculates a percent decreaseIn 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?The population in 2010 was (100% – 40%) = 60% of its population in 2001.So, the population of polar bears in 2010 was: 60% of 1500= 0.60 × 1500= 900 | Solves a problem involving combined percentsA person buys a Canadian flag for $15.99.How much would it cost in your province?For example, in SK: 6% PST and 5% GST = 11% taxTotal cost of the flag:  111% of $15.99= 1.11 × $15.99≈ $17.75 | Solves a problem involving consecutive percentsIn 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?In 2020, the price was: 128% of $413 000= 1.28 × $413 000= $528 640In 2022, the price was: 126% of $528 640= 1.26 × $528 640= $666 086.40The average price of a house in 2022 was about $666 000. |
| **Observations/Documentation** |
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