Activity 11 Assessment
Solving Percent Problems

Solving Percent Problems

Calculates a percent increase	Calculates a percent decrease	Solves a problem involving combined percents	Solves a problem involving consecutive percents
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? 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	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? 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	A 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% tax Total cost of the flag: 111% of $15.99 = 1.11 × $15.99 ≈ $17.75	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? In 2020, the price was: 128% of $413 000 = 1.28 × $413 000 = $528 640 In 2022, the price was: 126% of $528 640 = 1.26 × $528 640 = $666 086.40 The average price of a house in 2022 was about $666 000.

Observations/Documentation