

Apply successive percent changes

NAME	DATE	SCORE
		/ 10

1

A town had 2,500 people. The number of people grew by 10% one year and grew by 10% the next year. How many people are in the town now?

2

A coat costs \$130. The price is raised by 20%. Later, the new price is raised by 20%. Ivy says the final price is 40% higher than the original price, because $20 + 20 = 40$. By what percent is the final price higher than the original price?

3

“A percent increase and then a percent decrease gives back the starting amount.” Is this always, sometimes or never true?

☐ Always true
 ☐ Sometimes true
 ☐ Never true

4

A town had 8,600 people. The number of people grew by 10% one year and grew by 10% the next year. By what percent did the number of people grow over the two years?

5

A coat costs \$390. The price is raised by 20%. Later, the new price is cut by 20%. Emma says the final price is \$390, because the two changes cancel out. What is the final price of the coat, in dollars?

6

“A 50% increase and then a 50% decrease ends below the starting amount.” Is this always, sometimes or never true?

☐ Always true
 ☐ Sometimes true
 ☐ Never true

- 7** A town had 4,400 people. The number of people grew by 20% one year and fell by 20% the next year. How many people are in the town now?

- 8** A coat costs \$260. The price is raised by 20%. Later, the new price is raised by 20%. Maya says the final price is 40% higher than the original price, because $20 + 20 = 40$. By what percent is the final price higher than the original price?

- 9** A coat costs \$150. The price is raised by 50%. Later, the new price is cut by 50%. By what percent is the final price lower than the original price?

- 10** A coat costs \$30. The price is cut by 25%. Later, the new price is cut by 20%. By what percent is the final price lower than the original price?

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1 3025

3 Sometimes true

5 374.40

7 4224

9 25

2 44

4 21

6 Always true

8 44

10 40