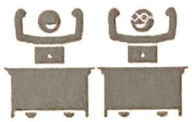
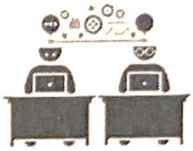
Name: ANSWERS! Period:


Communication


Successful Partnership


Encouragement


Solving Problem Together


Collaboration

Lesson 10-4 Classwork

Calculators OK

$$\text{Original Amount}\left(1 +/- \begin{matrix}\text{First Decimal}\\ \text{Percent Change}\end{matrix}\right)\left(1 +/- \begin{matrix}\text{Second Decimal}\\ \text{Percent Change}\end{matrix}\right) = \text{New Amount}$$

Question 01

A share of stock was worth \$31.50 on Monday morning. On Tuesday, the share rose 20% based on its value the day before. On Wednesday, the share fell 20% based on its value the day before. What was the value of the stock at the end of Wednesday?

\$ _____

31.5(1.2)(0.8)

\$30.24

Question 02

A share of stock was worth \$44.00 on Monday morning. On Tuesday, the share rose 10% based on its value the day before. On Wednesday, the share fell 10% based on its value the day before. What was the value of the stock at the end of Wednesday?

\$ _____

44(1.1)(0.9)

\$43.56

Question 03

The population of a small city was p in 2000. The population rose 15% from 2000 to 2010. The population rose 10% from 2010 to 2020.

Select the expressions below that represent the population of the city in 2020. Select <u>all</u> that apply.

a) $0.25p$

b) $1.25p$

c) $(1.15)(1.1)p$

d) $1.265p$

e) $2.25p$

p(1.15)(1.1)

p(1.265)

Question 04

The population of a small city was p in 2000. The population fell 10% from 2000 to 2010. The population fell 5% from 2010 to 2020.

Write an expression that represents the population of the city in 2020.

p(0.9)(0.95)

0.855p

Question 05

A share of stock was worth $28.00 on Monday morning. On Tuesday, the share rose 15% based on its value the day before. On Wednesday, the share fell 10% based on its value the day before. What was the value of the stock at the end of Wednesday?

$ _____

28(1.15)(0.9)

$28.98

Question 06

A share of stock was worth $80.00 on Monday morning. On Tuesday, the share rose 20% based on its value the day before. On Wednesday, the share fell 18% based on its value the day before. What was the value of the stock at the end of Wednesday?

$ _____

80(1.2)(0.82)

$78.72

Question 07

A share of stock was worth $20.00 on Monday morning. On Tuesday, the share rose 15% based on its value the day before. On Wednesday, the share fell 15% based on its value the day before. What was the value of the stock at the end of Wednesday?

$ _____

20(1.15)(0.85)

$19.55

Question 08

The population of a small city was p in 2000.
The population rose 5% from 2000 to 2010.
The population rose 10% from 2010 to 2020.

Select the expressions below that represent the population of the city in 2020. Select <u>all</u> that apply.

a) $0.15p$

b) $1.15p$

c) $(1.05)(1.1)p$

d) $2.15p$

e) $1.155p$

p(1.05)(1.1)

p(1.155)

Question 09

The population of a small city was p in 2000.
The population fell 7% from 2000 to 2010.
The population fell 3% from 2010 to 2020.

Write an expression that represents the population of the city in 2020.

p(0.93)(0.97)

0.9021p

Question 10

The population of a big city was p in 2000.
The population rose 12% from 2000 to 2010.
The population fell 12% from 2010 to 2020.

Write an expression that represents the population of the city in 2020.

p(1.12)(0.88)

0.9856p