



Determine which expression is the correct answer.

Answers

- 1) A cell phone company dropped the prices on their phones by 9%. Which expression shows the new price of the phones(p)?
 A. $p - 0.09p$ B. $p - 1.09$ C. $p \times 0.09$ D. $p - 0.09$

- 2) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.03$ B. $g - 1.03$ C. $g - 0.03g$ D. $g - 0.03$

- 3) While clearing out some old inventory a store offered 10 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 1.1$ B. $i - 0.1i$ C. $i \times 0.1$ D. $i - 0.1$

- 4) Joe was earning \$11 an hour before his raise. After his 5% raise he was making \$11.55 an hour. Which expression shows how his new hourly rate was calculated?
 A. 11×1.05 B. 11×0.05 C. $11 + 0.05$ D. $11 + 1.05$

- 5) A mall kiosk needed to buy 33 new cell phone cases at z dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?
 A. $33z - 0.05$ B. $0.05 \times 33z$ C. $33z + 0.05$ D. $33z + 1.05$

- 6) Roger drew a square with each side being exactly 12 centimeters long. If he wanted to make the square 6% larger which expression can he use to find the new sides length?
 A. $12 + 1.06$ B. 12×1.06 C. 12×0.06 D. $12 + 0.06$

- 7) The regular price of a computer was 893 dollars, but over the weekend it'll be on sale for for 10 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n - 10$ B. $n \times 0.1$ C. $n - 1.1$ D. $n - 0.1$

- 8) A house was on sell for \$23,474. If you wanted to offer 7% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 0.07$ B. $p - 0.07p$ C. $p - 1.07$ D. $p \times 0.07$

- 9) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 25 monitors for z dollars a piece?
 A. $25z - 0.19$ B. $25z + 1.19$ C. $0.19 \times 25z$ D. $25z + 0.19$

- 10) Last year the price of a college textbook(b) was \$197. This year the price will be 13% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.13$ B. $b - 1.13$ C. $b - 0.13$ D. $b - 13$

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 A. 11×1.05 B. 11×0.05 C. $11 + 0.05$ D. $11 + 1.05$
- 5) A mall kiosk needed to buy 33 new cell phone cases at z dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?
 A. $33z - 0.05$ B. $0.05 \times 33z$ C. $33z + 0.05$ D. $33z + 1.05$
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- 7) The regular price of a computer was 893 dollars, but over the weekend it'll be on sale for for 10 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n - 10$ B. $n \times 0.1$ C. $n - 1.1$ D. $n - 0.1$
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 A. $p - 0.07$ B. $p - 0.07p$ C. $p - 1.07$ D. $p \times 0.07$
- 9) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 25 monitors for z dollars a piece?
 A. $25z - 0.19$ B. $25z + 1.19$ C. $0.19 \times 25z$ D. $25z + 0.19$
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 A. $b \times 0.13$ B. $b - 1.13$ C. $b - 0.13$ D. $b - 13$

1. **A**
2. **C**
3. **B**
4. **A**
5. **B**
6. **B**
7. **B**
8. **B**
9. **C**
10. **A**



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- 1) A cell phone company dropped the prices on their phones by 7%. Which expression shows the new price of the phones(p)?
 A. $p \times 0.07$ B. $p - 1.07$ C. $p - 0.07$ D. $p - 0.07p$

- 2) Sam drew a square with each side being exactly 12 centimeters long. If he wanted to make the square 12% larger which expression can he use to find the new sides length?
 A. 12×0.12 B. $12 + 1.12$ C. 12×1.12 D. $12 + 0.12$

- 3) A company was having a sale for 17% off the price of computer monitors. Which expression shows how much money you would save if you bought 26 monitors for z dollars a piece?
 A. $26z + 0.17$ B. $26z - 0.17$ C. $26z + 1.17$ D. $0.17 \times 26z$

- 4) A sandwich shop was charging \$1.62 for a sandwich, but raised the price 8% making them cost \$1.75. Which expression shows how the new price was calculated?
 A. 1.62×1.08 B. $1.62 + 1.08$ C. 1.62×0.08 D. $1.62 + 0.08$

- 5) Last year the price of a college textbook(b) was \$125. This year the price will be 22% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.22$ B. $b - 0.22$ C. $b - 1.22$ D. $b - 22$

- 6) While clearing out some old inventory a store offered 50 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 1.5$ B. $i - 0.5$ C. $i - 0.5i$ D. $i \times 1.5$

- 7) A mall kiosk needed to buy 24 new cell phone cases at z dollars a piece. Because they were buying so many they got 19% off the price. Which expression shows how much money they saved?
 A. $24z + 1.19$ B. $24z + 0.19$ C. $0.19 \times 24z$ D. $24z - 0.19$

- 8) Joe was earning \$11 an hour before his raise. After his 5% raise he was making \$11.55 an hour. Which expression shows how his new hourly rate was calculated?
 A. $11 + 0.05$ B. 11×1.05 C. 11×0.05 D. $11 + 1.05$

- 9) A house was on sell for \$59,002. If you wanted to offer 11% less than the asking price(p) which expression shows how much you should offer?
 A. $p \times 0.11$ B. $p - 0.11$ C. $p - 1.11$ D. $p - 0.11p$

- 10) A store raised the price on watermelons 8%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 0.08$ B. $X + 1.08$ C. $X \times 0.08$ D. $X + (0.08 \times X)$

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 A. 12×0.12 B. $12 + 1.12$ C. 12×1.12 D. $12 + 0.12$
- 3) A company was having a sale for 17% off the price of computer monitors. Which expression shows how much money you would save if you bought 26 monitors for z dollars a piece?
 A. $26z + 0.17$ B. $26z - 0.17$ C. $26z + 1.17$ D. $0.17 \times 26z$
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- 5) Last year the price of a college textbook(b) was \$125. This year the price will be 22% higher. Which expression shows the difference in price from last year to this year?
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 A. $24z + 1.19$ B. $24z + 0.19$ C. $0.19 \times 24z$ D. $24z - 0.19$
- 8) Joe was earning \$11 an hour before his raise. After his 5% raise he was making \$11.55 an hour. Which expression shows how his new hourly rate was calculated?
 A. $11 + 0.05$ B. 11×1.05 C. 11×0.05 D. $11 + 1.05$
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- 10) A store raised the price on watermelons 8%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 0.08$ B. $X + 1.08$ C. $X \times 0.08$ D. $X + (0.08 \times X)$

1. **D**
2. **C**
3. **D**
4. **A**
5. **A**
6. **C**
7. **C**
8. **B**
9. **D**
10. **D**



Determine which expression is the correct answer.

Answers

- 1) This years model of a cell phone is 5 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?
 A. $w - 0.05$ B. $w \times 0.05$ C. $w \div 1.05$ D. $w - 1.05$
- 2) Last year the price of a college textbook(b) was \$258. This year the price will be 11% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.11$ B. $b - 11$ C. $b - 0.11$ D. $b - 1.11$
- 3) A company was having a sale for 10% off the price of computer monitors. Which expression shows how much money you would save if you bought 21 monitors for z dollars a piece?
 A. $21z - 0.1$ B. $21z + 0.1$ C. $0.1 \times 21z$ D. $21z + 1.1$
- 4) A sandwich shop was charging \$1.79 for a sandwich, but raised the price 5% making them cost \$1.88. Which expression shows how the new price was calculated?
 A. 1.79×1.05 B. $1.79 + 0.05$ C. $1.79 + 1.05$ D. 1.79×0.05
- 5) An icecream bar was 692 calories. If they increased the size of the bar by 3% which expression can be used to find the new calorie count?
 A. $692 + 0.03$ B. 692×0.03 C. 692×1.03 D. $692 + 1.03$
- 6) A cell phone company dropped the prices on their phones by 6%. Which expression shows the new price of the phones(p)?
 A. $p - 0.06p$ B. $p - 0.06$ C. $p - 1.06$ D. $p \times 0.06$
- 7) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g - 1.03$ B. $g \times 0.03$ C. $g - 0.03$ D. $g - 0.03g$
- 8) Oliver drew a square with each side being exactly 14 centimeters long. If he wanted to make the square 5% larger which expression can he use to find the new sides length?
 A. $14 + 1.05$ B. $14 + 0.05$ C. 14×0.05 D. 14×1.05
- 9) A mall kiosk needed to buy 45 new cell phone cases at z dollars a piece. Because they were buying so many they got 15% off the price. Which expression shows how much money they saved?
 A. $0.15 \times 45z$ B. $45z + 0.15$ C. $45z - 0.15$ D. $45z + 1.15$
- 10) A store raised the price on watermelons 6%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 1.06$ B. $X + 0.06$ C. $X \times 0.06$ D. $X + (0.06 \times X)$

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6. _____
7. _____
8. _____
9. _____
10. _____



Determine which expression is the correct answer.

Answers

1) This years model of a cell phone is 5 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?

- A. $w - 0.05$ B. $w \times 0.05$ C. $w \div 1.05$ D. $w - 1.05$

1. **C**

2) Last year the price of a college textbook(b) was \$258. This year the price will be 11% higher. Which expression shows the difference in price from last year to this year?

- A. $b \times 0.11$ B. $b - 11$ C. $b - 0.11$ D. $b - 1.11$

2. **A**

3) A company was having a sale for 10% off the price of computer monitors. Which expression shows how much money you would save if you bought 21 monitors for z dollars a piece?

- A. $21z - 0.1$ B. $21z + 0.1$ C. $0.1 \times 21z$ D. $21z + 1.1$

3. **C**

4) A sandwich shop was charging \$1.79 for a sandwich, but raised the price 5% making them cost \$1.88. Which expression shows how the new price was calculated?

- A. 1.79×1.05 B. $1.79 + 0.05$ C. $1.79 + 1.05$ D. 1.79×0.05

4. **A**

5) An icecream bar was 692 calories. If they increased the size of the bar by 3% which expression can be used to find the new calorie count?

- A. $692 + 0.03$ B. 692×0.03 C. 692×1.03 D. $692 + 1.03$

5. **C**

6) A cell phone company dropped the prices on their phones by 6%. Which expression shows the new price of the phones(p)?

- A. $p - 0.06p$ B. $p - 0.06$ C. $p - 1.06$ D. $p \times 0.06$

6. **A**

7) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)

- A. $g - 1.03$ B. $g \times 0.03$ C. $g - 0.03$ D. $g - 0.03g$

7. **D**

8) Oliver drew a square with each side being exactly 14 centimeters long. If he wanted to make the square 5% larger which expression can he use to find the new sides length?

- A. $14 + 1.05$ B. $14 + 0.05$ C. 14×0.05 D. 14×1.05

8. **D**

9) A mall kiosk needed to buy 45 new cell phone cases at z dollars a piece. Because they were buying so many they got 15% off the price. Which expression shows how much money they saved?

- A. $0.15 \times 45z$ B. $45z + 0.15$ C. $45z - 0.15$ D. $45z + 1.15$

9. **A**

10) A store raised the price on watermelons 6%. The original price for each was X dollars. Which expression shows the new price of the watermelons?

- A. $X + 1.06$ B. $X + 0.06$ C. $X \times 0.06$ D. $X + (0.06 \times X)$

10. **D**



Determine which expression is the correct answer.

Answers

- 1) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 1.01$ C. $g - 0.01$ D. $g - 0.01g$
- 2) A mall kiosk needed to buy 36 new cell phone cases at z dollars a piece. Because they were buying so many they got 11% off the price. Which expression shows how much money they saved?
 A. $36z - 0.11$ B. $0.11 \times 36z$ C. $36z + 0.11$ D. $36z + 1.11$
- 3) Joe was earning \$6 an hour before his raise. After his 5% raise he was making \$6.3 an hour. Which expression shows how his new hourly rate was calculated?
 A. $6 + 1.05$ B. $6 + 0.05$ C. 6×0.05 D. 6×1.05
- 4) The regular price of a computer was 432 dollars, but over the weekend it'll be on sale for for 10 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n \times 0.1$ B. $n - 0.1$ C. $n - 1.1$ D. $n - 10$
- 5) Frank drew a square with each side being exactly 15 centimeters long. If he wanted to make the square 10% larger which expression can he use to find the new sides length?
 A. $15 + 0.1$ B. 15×0.1 C. 15×1.1 D. $15 + 1.1$
- 6) A cell phone company dropped the prices on their phones by 10%. Which expression shows the new price of the phones(p)?
 A. $p - 0.1$ B. $p - 0.1p$ C. $p - 1.1$ D. $p \times 0.1$
- 7) A company was having a sale for 6% off the price of computer monitors. Which expression shows how much money you would save if you bought 38 monitors for z dollars a piece?
 A. $0.06 \times 38z$ B. $38z + 0.06$ C. $38z - 0.06$ D. $38z + 1.06$
- 8) A store raised the price on watermelons 14%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 1.14$ B. $X + (0.14 \times X)$ C. $X \times 0.14$ D. $X + 0.14$
- 9) This years model of a cell phone is 10 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?
 A. $w - 1.1$ B. $w \times 0.1$ C. $w \div 1.1$ D. $w - 0.1$
- 10) Last year the price of a college textbook(b) was \$296. This year the price will be 24% higher. Which expression shows the difference in price from last year to this year?
 A. $b - 0.24$ B. $b - 1.24$ C. $b \times 0.24$ D. $b - 24$

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 A. $g \times 0.01$ B. $g - 1.01$ C. $g - 0.01$ D. $g - 0.01g$
- 2) A mall kiosk needed to buy 36 new cell phone cases at z dollars a piece. Because they were buying so many they got 11% off the price. Which expression shows how much money they saved?
 A. $36z - 0.11$ B. $0.11 \times 36z$ C. $36z + 0.11$ D. $36z + 1.11$
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- 4) The regular price of a computer was 432 dollars, but over the weekend it'll be on sale for for 10 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n \times 0.1$ B. $n - 0.1$ C. $n - 1.1$ D. $n - 10$
- 5) Frank drew a square with each side being exactly 15 centimeters long. If he wanted to make the square 10% larger which expression can he use to find the new sides length?
 A. $15 + 0.1$ B. 15×0.1 C. 15×1.1 D. $15 + 1.1$
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 A. $p - 0.1$ B. $p - 0.1p$ C. $p - 1.1$ D. $p \times 0.1$
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 A. $0.06 \times 38z$ B. $38z + 0.06$ C. $38z - 0.06$ D. $38z + 1.06$
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 A. $b - 0.24$ B. $b - 1.24$ C. $b \times 0.24$ D. $b - 24$

Answers

1. **D**
2. **B**
3. **D**
4. **A**
5. **C**
6. **B**
7. **A**
8. **B**
9. **C**
10. **C**



Determine which expression is the correct answer.

Answers

- 1) While clearing out some old inventory a store offered 50 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 0.5$ B. $i \times 1.5$ C. $i - 1.5$ D. $i - 0.5i$

- 2) A mall kiosk needed to buy 39 new cell phone cases at z dollars a piece. Because they were buying so many they got 15% off the price. Which expression shows how much money they saved?
 A. $39z + 1.15$ B. $0.15 \times 39z$ C. $39z + 0.15$ D. $39z - 0.15$

- 3) This years model of a cell phone is 10 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?
 A. $w \times 0.1$ B. $w - 1.1$ C. $w - 0.1$ D. $w \div 1.1$

- 4) A company was having a sale for 15% off the price of computer monitors. Which expression shows how much money you would save if you bought 29 monitors for z dollars a piece?
 A. $29z + 0.15$ B. $29z - 0.15$ C. $29z + 1.15$ D. $0.15 \times 29z$

- 5) Joe was earning \$6 an hour before his raise. After his 5% raise he was making \$6.3 an hour. Which expression shows how his new hourly rate was calculated?
 A. $6 + 0.05$ B. $6 + 1.05$ C. 6×0.05 D. 6×1.05

- 6) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g - 0.03$ B. $g - 0.03g$ C. $g \times 0.03$ D. $g - 1.03$

- 7) A store raised the price on watermelons 2%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 0.02$ B. $X \times 0.02$ C. $X + (0.02 \times X)$ D. $X + 1.02$

- 8) A house was on sell for \$24,446. If you wanted to offer 10% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 1.1$ B. $p \times 0.1$ C. $p - 0.1$ D. $p - 0.1p$

- 9) Last year the price of a college textbook(b) was \$206. This year the price will be 7% higher. Which expression shows the difference in price from last year to this year?
 A. $b - 7$ B. $b - 1.07$ C. $b - 0.07$ D. $b \times 0.07$

- 10) A box of cereal advertised having 13% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y + 0.13$ B. $y + (0.13 \times y)$ C. $y + 1.13$ D. $y \times 0.13$

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- 1) While clearing out some old inventory a store offered 50 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
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A. $39z + 1.15$ B. $0.15 \times 39z$ C. $39z + 0.15$ D. $39z - 0.15$
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A. $w \times 0.1$ B. $w - 1.1$ C. $w - 0.1$ D. $w \div 1.1$
- 4) A company was having a sale for 15% off the price of computer monitors. Which expression shows how much money you would save if you bought 29 monitors for z dollars a piece?
A. $29z + 0.15$ B. $29z - 0.15$ C. $29z + 1.15$ D. $0.15 \times 29z$
- 5) Joe was earning \$6 an hour before his raise. After his 5% raise he was making \$6.3 an hour. Which expression shows how his new hourly rate was calculated?
A. $6 + 0.05$ B. $6 + 1.05$ C. 6×0.05 D. 6×1.05
- 6) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
A. $g - 0.03$ B. $g - 0.03g$ C. $g \times 0.03$ D. $g - 1.03$
- 7) A store raised the price on watermelons 2%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
A. $X + 0.02$ B. $X \times 0.02$ C. $X + (0.02 \times X)$ D. $X + 1.02$
- 8) A house was on sell for \$24,446. If you wanted to offer 10% less than the asking price(p) which expression shows how much you should offer?
A. $p - 1.1$ B. $p \times 0.1$ C. $p - 0.1$ D. $p - 0.1p$
- 9) Last year the price of a college textbook(b) was \$206. This year the price will be 7% higher. Which expression shows the difference in price from last year to this year?
A. $b - 7$ B. $b - 1.07$ C. $b - 0.07$ D. $b \times 0.07$
- 10) A box of cereal advertised having 13% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
A. $y + 0.13$ B. $y + (0.13 \times y)$ C. $y + 1.13$ D. $y \times 0.13$

Answers

1. **D**
2. **B**
3. **D**
4. **D**
5. **D**
6. **B**
7. **C**
8. **D**
9. **D**
10. **B**



Determine which expression is the correct answer.

Answers

- 1) A mall kiosk needed to buy 45 new cell phone cases at z dollars a piece. Because they were buying so many they got 18% off the price. Which expression shows how much money they saved?
 A. $45z - 0.18$ B. $0.18 \times 45z$ C. $45z + 0.18$ D. $45z + 1.18$
- 2) A sandwich shop was charging \$3.43 for a sandwich, but raised the price 10% making them cost \$3.77. Which expression shows how the new price was calculated?
 A. $3.43 + 1.1$ B. $3.43 + 0.1$ C. 3.43×1.1 D. 3.43×0.1
- 3) A house was on sell for \$44,017. If you wanted to offer 5% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 1.05$ B. $p - 0.05$ C. $p - 0.05p$ D. $p \times 0.05$
- 4) A company was having a sale for 9% off the price of computer monitors. Which expression shows how much money you would save if you bought 38 monitors for z dollars a piece?
 A. $38z - 0.09$ B. $0.09 \times 38z$ C. $38z + 1.09$ D. $38z + 0.09$
- 5) The regular price of a computer was 819 dollars, but over the weekend it'll be on sale for for 21 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n - 1.21$ B. $n - 21$ C. $n - 0.21$ D. $n \times 0.21$
- 6) Last year the price of a college textbook(b) was \$130. This year the price will be 19% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.19$ B. $b - 1.19$ C. $b - 0.19$ D. $b - 19$
- 7) A store raised the price on watermelons 1%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 1.01$ B. $X + (0.01 \times X)$ C. $X \times 0.01$ D. $X + 0.01$
- 8) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 0.01g$ C. $g - 1.01$ D. $g - 0.01$
- 9) This years model of a cell phone is 9 percent heavier than last years. This years model weight is represent by w . Which expression can be used to calculate the weight of last years model?
 A. $w \div 1.09$ B. $w - 1.09$ C. $w \times 0.09$ D. $w - 0.09$
- 10) Joe was earning \$10 an hour before his raise. After his 5% raise he was making \$10.5 an hour. Which expression shows how his new hourly rate was calculated?
 A. 10×0.05 B. $10 + 1.05$ C. 10×1.05 D. $10 + 0.05$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Determine which expression is the correct answer.

Answers

- 1) A mall kiosk needed to buy 45 new cell phone cases at z dollars a piece. Because they were buying so many they got 18% off the price. Which expression shows how much money they saved?
 A. $45z - 0.18$ B. $0.18 \times 45z$ C. $45z + 0.18$ D. $45z + 1.18$
- 2) A sandwich shop was charging \$3.43 for a sandwich, but raised the price 10% making them cost \$3.77. Which expression shows how the new price was calculated?
 A. $3.43 + 1.1$ B. $3.43 + 0.1$ C. 3.43×1.1 D. 3.43×0.1
- 3) A house was on sell for \$44,017. If you wanted to offer 5% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 1.05$ B. $p - 0.05$ C. $p - 0.05p$ D. $p \times 0.05$
- 4) A company was having a sale for 9% off the price of computer monitors. Which expression shows how much money you would save if you bought 38 monitors for z dollars a piece?
 A. $38z - 0.09$ B. $0.09 \times 38z$ C. $38z + 1.09$ D. $38z + 0.09$
- 5) The regular price of a computer was 819 dollars, but over the weekend it'll be on sale for for 21 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n - 1.21$ B. $n - 21$ C. $n - 0.21$ D. $n \times 0.21$
- 6) Last year the price of a college textbook(b) was \$130. This year the price will be 19% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.19$ B. $b - 1.19$ C. $b - 0.19$ D. $b - 19$
- 7) A store raised the price on watermelons 1%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 1.01$ B. $X + (0.01 \times X)$ C. $X \times 0.01$ D. $X + 0.01$
- 8) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 0.01g$ C. $g - 1.01$ D. $g - 0.01$
- 9) This years model of a cell phone is 9 percent heavier than last years. This years model weight is represent by w . Which expression can be used to calculate the weight of last years model?
 A. $w \div 1.09$ B. $w - 1.09$ C. $w \times 0.09$ D. $w - 0.09$
- 10) Joe was earning \$10 an hour before his raise. After his 5% raise he was making \$10.5 an hour. Which expression shows how his new hourly rate was calculated?
 A. 10×0.05 B. $10 + 1.05$ C. 10×1.05 D. $10 + 0.05$

1. **B**
2. **C**
3. **C**
4. **B**
5. **D**
6. **A**
7. **B**
8. **B**
9. **A**
10. **C**



Determine which expression is the correct answer.

Answers

- 1) Joe was earning \$11 an hour before his raise. After his 5% raise he was making \$11.55 an hour. Which expression shows how his new hourly rate was calculated?
 A. 11×0.05 B. 11×1.05 C. $11 + 0.05$ D. $11 + 1.05$

- 2) A box of cereal advertised having 35% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y + 1.35$ B. $y + 0.35$ C. $y + (0.35 \times y)$ D. $y \times 0.35$

- 3) The regular price of a computer was 788 dollars, but over the weekend it'll be on sale for for 22 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n - 1.22$ B. $n - 0.22$ C. $n - 22$ D. $n \times 0.22$

- 4) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 0.01g$ C. $g - 1.01$ D. $g - 0.01$

- 5) Frank drew a square with each side being exactly 12 centimeters long. If he wanted to make the square 5% larger which expression can he use to find the new sides length?
 A. 12×0.05 B. 12×1.05 C. $12 + 1.05$ D. $12 + 0.05$

- 6) While clearing out some old inventory a store offered 10 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 1.1$ B. $i \times 0.1$ C. $i - 0.1$ D. $i - 0.1i$

- 7) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 27 monitors for z dollars a piece?
 A. $27z - 0.19$ B. $27z + 0.19$ C. $0.19 \times 27z$ D. $27z + 1.19$

- 8) Last year the price of a college textbook(b) was \$120. This year the price will be 24% higher. Which expression shows the difference in price from last year to this year?
 A. $b - 24$ B. $b - 1.24$ C. $b - 0.24$ D. $b \times 0.24$

- 9) An icecream bar was 835 calories. If they increased the size of the bar by 3% which expression can be used to find the new calorie count?
 A. 835×1.03 B. 835×0.03 C. $835 + 1.03$ D. $835 + 0.03$

- 10) A mall kiosk needed to buy 30 new cell phone cases at z dollars a piece. Because they were buying so many they got 12% off the price. Which expression shows how much money they saved?
 A. $30z + 1.12$ B. $30z + 0.12$ C. $30z - 0.12$ D. $0.12 \times 30z$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Determine which expression is the correct answer.

Answers

- 1) Joe was earning \$11 an hour before his raise. After his 5% raise he was making \$11.55 an hour. Which expression shows how his new hourly rate was calculated?
 A. 11×0.05 B. 11×1.05 C. $11 + 0.05$ D. $11 + 1.05$
- 2) A box of cereal advertised having 35% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y + 1.35$ B. $y + 0.35$ C. $y + (0.35 \times y)$ D. $y \times 0.35$
- 3) The regular price of a computer was 788 dollars, but over the weekend it'll be on sale for for 22 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n - 1.22$ B. $n - 0.22$ C. $n - 22$ D. $n \times 0.22$
- 4) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 0.01g$ C. $g - 1.01$ D. $g - 0.01$
- 5) Frank drew a square with each side being exactly 12 centimeters long. If he wanted to make the square 5% larger which expression can he use to find the new sides length?
 A. 12×0.05 B. 12×1.05 C. $12 + 1.05$ D. $12 + 0.05$
- 6) While clearing out some old inventory a store offered 10 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 1.1$ B. $i \times 0.1$ C. $i - 0.1$ D. $i - 0.1i$
- 7) A company was having a sale for 19% off the price of computer monitors. Which expression shows how much money you would save if you bought 27 monitors for z dollars a piece?
 A. $27z - 0.19$ B. $27z + 0.19$ C. $0.19 \times 27z$ D. $27z + 1.19$
- 8) Last year the price of a college textbook(b) was \$120. This year the price will be 24% higher. Which expression shows the difference in price from last year to this year?
 A. $b - 24$ B. $b - 1.24$ C. $b - 0.24$ D. $b \times 0.24$
- 9) An icecream bar was 835 calories. If they increased the size of the bar by 3% which expression can be used to find the new calorie count?
 A. 835×1.03 B. 835×0.03 C. $835 + 1.03$ D. $835 + 0.03$
- 10) A mall kiosk needed to buy 30 new cell phone cases at z dollars a piece. Because they were buying so many they got 12% off the price. Which expression shows how much money they saved?
 A. $30z + 1.12$ B. $30z + 0.12$ C. $30z - 0.12$ D. $0.12 \times 30z$

1. **B**
2. **C**
3. **D**
4. **B**
5. **B**
6. **D**
7. **C**
8. **D**
9. **A**
10. **D**



Determine which expression is the correct answer.

Answers

- 1) Joe was earning \$6 an hour before his raise. After his 5% raise he was making \$6.3 an hour. Which expression shows how his new hourly rate was calculated?
 A. 6×0.05 B. $6 + 0.05$ C. 6×1.05 D. $6 + 1.05$

- 2) A company was having a sale for 18% off the price of computer monitors. Which expression shows how much money you would save if you bought 33 monitors for z dollars a piece?
 A. $33z + 0.18$ B. $0.18 \times 33z$ C. $33z + 1.18$ D. $33z - 0.18$

- 3) The regular price of a computer was 430 dollars, but over the weekend it'll be on sale for for 19 percent off. Which expression shows the difference in price from normal(n) to sale?
 A. $n \times 0.19$ B. $n - 0.19$ C. $n - 19$ D. $n - 1.19$

- 4) A store raised the price on watermelons 7%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + 1.07$ B. $X + 0.07$ C. $X + (0.07 \times X)$ D. $X \times 0.07$

- 5) An icecream bar was 376 calories. If they increased the size of the bar by 6% which expression can be used to find the new calorie count?
 A. 376×1.06 B. 376×0.06 C. $376 + 1.06$ D. $376 + 0.06$

- 6) A box of cereal advertised having 31% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y + 0.31$ B. $y + (0.31 \times y)$ C. $y + 1.31$ D. $y \times 0.31$

- 7) This years model of a cell phone is 6 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?
 A. $w - 1.06$ B. $w \div 1.06$ C. $w \times 0.06$ D. $w - 0.06$

- 8) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 0.01$ C. $g - 0.01g$ D. $g - 1.01$

- 9) Last year the price of a college textbook(b) was \$100. This year the price will be 5% higher. Which expression shows the difference in price from last year to this year?
 A. $b - 1.05$ B. $b - 0.05$ C. $b \times 0.05$ D. $b - 5$

- 10) While clearing out some old inventory a store offered 25 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 0.25i$ B. $i - 1.25$ C. $i \times 0.25$ D. $i - 0.25$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

**Determine which expression is the correct answer.**

- 1) Joe was earning \$6 an hour before his raise. After his 5% raise he was making \$6.3 an hour. Which expression shows how his new hourly rate was calculated?
A. 6×0.05 B. $6 + 0.05$ C. 6×1.05 D. $6 + 1.05$
- 2) A company was having a sale for 18% off the price of computer monitors. Which expression shows how much money you would save if you bought 33 monitors for z dollars a piece?
A. $33z + 0.18$ B. $0.18 \times 33z$ C. $33z + 1.18$ D. $33z - 0.18$
- 3) The regular price of a computer was 430 dollars, but over the weekend it'll be on sale for 19 percent off. Which expression shows the difference in price from normal(n) to sale?
A. $n \times 0.19$ B. $n - 0.19$ C. $n - 19$ D. $n - 1.19$
- 4) A store raised the price on watermelons 7%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
A. $X + 1.07$ B. $X + 0.07$ C. $X + (0.07 \times X)$ D. $X \times 0.07$
- 5) An icecream bar was 376 calories. If they increased the size of the bar by 6% which expression can be used to find the new calorie count?
A. 376×1.06 B. 376×0.06 C. $376 + 1.06$ D. $376 + 0.06$
- 6) A box of cereal advertised having 31% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
A. $y + 0.31$ B. $y + (0.31 \times y)$ C. $y + 1.31$ D. $y \times 0.31$
- 7) This years model of a cell phone is 6 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?
A. $w - 1.06$ B. $w \div 1.06$ C. $w \times 0.06$ D. $w - 0.06$
- 8) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
A. $g \times 0.01$ B. $g - 0.01$ C. $g - 0.01g$ D. $g - 1.01$
- 9) Last year the price of a college textbook(b) was \$100. This year the price will be 5% higher. Which expression shows the difference in price from last year to this year?
A. $b - 1.05$ B. $b - 0.05$ C. $b \times 0.05$ D. $b - 5$
- 10) While clearing out some old inventory a store offered 25 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
A. $i - 0.25i$ B. $i - 1.25$ C. $i \times 0.25$ D. $i - 0.25$

Answers

1. **C**
2. **B**
3. **A**
4. **C**
5. **A**
6. **B**
7. **B**
8. **C**
9. **C**
10. **A**



Determine which expression is the correct answer.

Answers

- 1) A store raised the price on watermelons 11%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + (0.11 \times X)$ B. $X + 1.11$ C. $X + 0.11$ D. $X \times 0.11$

- 2) A house was on sell for \$39,870. If you wanted to offer 9% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 0.09$ B. $p - 1.09$ C. $p \times 0.09$ D. $p - 0.09p$

- 3) While clearing out some old inventory a store offered 40 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 0.4$ B. $i \times 0.4$ C. $i - 1.4$ D. $i - 0.4i$

- 4) John drew a square with each side being exactly 9 centimeters long. If he wanted to make the square 9% larger which expression can he use to find the new sides length?
 A. $9 + 0.09$ B. 9×1.09 C. $9 + 1.09$ D. 9×0.09

- 5) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g - 0.03$ B. $g - 0.03g$ C. $g \times 0.03$ D. $g - 1.03$

- 6) Last year the price of a college textbook(b) was \$124. This year the price will be 10% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.1$ B. $b - 10$ C. $b - 0.1$ D. $b - 1.1$

- 7) An icecream bar was 762 calories. If they increased the size of the bar by 10% which expression can be used to find the new calorie count?
 A. $762 + 1.1$ B. $762 + 0.1$ C. 762×1.1 D. 762×0.1

- 8) A mall kiosk needed to buy 23 new cell phone cases at z dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?
 A. $23z - 0.05$ B. $23z + 0.05$ C. $0.05 \times 23z$ D. $23z + 1.05$

- 9) A cell phone company dropped the prices on their phones by 8%. Which expression shows the new price of the phones(p)?
 A. $p - 1.08$ B. $p - 0.08$ C. $p \times 0.08$ D. $p - 0.08p$

- 10) A box of cereal advertised having 49% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y + 1.49$ B. $y + 0.49$ C. $y \times 0.49$ D. $y + (0.49 \times y)$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Determine which expression is the correct answer.

Answers

- 1) A store raised the price on watermelons 11%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X + (0.11 \times X)$ B. $X + 1.11$ C. $X + 0.11$ D. $X \times 0.11$
- 2) A house was on sell for \$39,870. If you wanted to offer 9% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 0.09$ B. $p - 1.09$ C. $p \times 0.09$ D. $p - 0.09p$
- 3) While clearing out some old inventory a store offered 40 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 0.4$ B. $i \times 0.4$ C. $i - 1.4$ D. $i - 0.4i$
- 4) John drew a square with each side being exactly 9 centimeters long. If he wanted to make the square 9% larger which expression can he use to find the new sides length?
 A. $9 + 0.09$ B. 9×1.09 C. $9 + 1.09$ D. 9×0.09
- 5) Over the summer gas prices dropped 3%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g - 0.03$ B. $g - 0.03g$ C. $g \times 0.03$ D. $g - 1.03$
- 6) Last year the price of a college textbook(b) was \$124. This year the price will be 10% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.1$ B. $b - 10$ C. $b - 0.1$ D. $b - 1.1$
- 7) An icecream bar was 762 calories. If they increased the size of the bar by 10% which expression can be used to find the new calorie count?
 A. $762 + 1.1$ B. $762 + 0.1$ C. 762×1.1 D. 762×0.1
- 8) A mall kiosk needed to buy 23 new cell phone cases at z dollars a piece. Because they were buying so many they got 5% off the price. Which expression shows how much money they saved?
 A. $23z - 0.05$ B. $23z + 0.05$ C. $0.05 \times 23z$ D. $23z + 1.05$
- 9) A cell phone company dropped the prices on their phones by 8%. Which expression shows the new price of the phones(p)?
 A. $p - 1.08$ B. $p - 0.08$ C. $p \times 0.08$ D. $p - 0.08p$
- 10) A box of cereal advertised having 49% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y + 1.49$ B. $y + 0.49$ C. $y \times 0.49$ D. $y + (0.49 \times y)$

1. **A**
2. **D**
3. **D**
4. **B**
5. **B**
6. **A**
7. **C**
8. **C**
9. **D**
10. **D**



Determine which expression is the correct answer.

Answers

- 1) A store raised the price on watermelons 1%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X \times 0.01$ B. $X + (0.01 \times X)$ C. $X + 0.01$ D. $X + 1.01$
- 2) A box of cereal advertised having 8% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y \times 0.08$ B. $y + (0.08 \times y)$ C. $y + 1.08$ D. $y + 0.08$
- 3) This years model of a cell phone is 15 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?
 A. $w \times 0.15$ B. $w \div 1.15$ C. $w - 1.15$ D. $w - 0.15$
- 4) A house was on sell for \$58,797. If you wanted to offer 10% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 1.1$ B. $p \times 0.1$ C. $p - 0.1$ D. $p - 0.1p$
- 5) While clearing out some old inventory a store offered 35 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 0.35$ B. $i \times 0.35$ C. $i - 1.35$ D. $i - 0.35i$
- 6) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 0.01g$ C. $g - 1.01$ D. $g - 0.01$
- 7) Victor drew a square with each side being exactly 6 centimeters long. If he wanted to make the square 10% larger which expression can he use to find the new sides length?
 A. $6 + 0.1$ B. 6×1.1 C. 6×0.1 D. $6 + 1.1$
- 8) A sandwich shop was charging \$1.54 for a sandwich, but raised the price 6% making them cost \$1.63. Which expression shows how the new price was calculated?
 A. $1.54 + 1.06$ B. 1.54×1.06 C. 1.54×0.06 D. $1.54 + 0.06$
- 9) Last year the price of a college textbook(b) was \$294. This year the price will be 10% higher. Which expression shows the difference in price from last year to this year?
 A. $b \times 0.1$ B. $b - 1.1$ C. $b - 10$ D. $b - 0.1$
- 10) A cell phone company dropped the prices on their phones by 7%. Which expression shows the new price of the phones(p)?
 A. $p \times 0.07$ B. $p - 0.07$ C. $p - 1.07$ D. $p - 0.07p$

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____



Determine which expression is the correct answer.

Answers

- 1) A store raised the price on watermelons 1%. The original price for each was X dollars. Which expression shows the new price of the watermelons?
 A. $X \times 0.01$ B. $X + (0.01 \times X)$ C. $X + 0.01$ D. $X + 1.01$
- 2) A box of cereal advertised having 8% more marshmallows. The original cereal had y cups of marshmallow. Which expression shows the how many cups of marshmallows the new cereal has?
 A. $y \times 0.08$ B. $y + (0.08 \times y)$ C. $y + 1.08$ D. $y + 0.08$
- 3) This years model of a cell phone is 15 percent heavier than last years. This years model weight is represent by w. Which expression can be used to calculate the weight of last years model?
 A. $w \times 0.15$ B. $w \div 1.15$ C. $w - 1.15$ D. $w - 0.15$
- 4) A house was on sell for \$58,797. If you wanted to offer 10% less than the asking price(p) which expression shows how much you should offer?
 A. $p - 1.1$ B. $p \times 0.1$ C. $p - 0.1$ D. $p - 0.1p$
- 5) While clearing out some old inventory a store offered 35 percent off of any item(i). Which expression can be used to calculate the new cost of an item?
 A. $i - 0.35$ B. $i \times 0.35$ C. $i - 1.35$ D. $i - 0.35i$
- 6) Over the summer gas prices dropped 1%. Which expression shows the new price of a gallon of gas? (the old price is represented by g)
 A. $g \times 0.01$ B. $g - 0.01g$ C. $g - 1.01$ D. $g - 0.01$
- 7) Victor drew a square with each side being exactly 6 centimeters long. If he wanted to make the square 10% larger which expression can he use to find the new sides length?
 A. $6 + 0.1$ B. 6×1.1 C. 6×0.1 D. $6 + 1.1$
- 8) A sandwich shop was charging \$1.54 for a sandwich, but raised the price 6% making them cost \$1.63. Which expression shows how the new price was calculated?
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 A. $b \times 0.1$ B. $b - 1.1$ C. $b - 10$ D. $b - 0.1$
- 10) A cell phone company dropped the prices on their phones by 7%. Which expression shows the new price of the phones(p)?
 A. $p \times 0.07$ B. $p - 0.07$ C. $p - 1.07$ D. $p - 0.07p$

1. **B**
2. **B**
3. **B**
4. **D**
5. **D**
6. **B**
7. **B**
8. **B**
9. **A**
10. **D**