

Algebraic Expressions

1. 1. Four more than the price, p . Write the algebraic expression.

1 point

Mark only one oval.

- A $p + 4$
- B $4p$
- C $4p + 4$
- D $4 + p/4$

2. 2. Five less than three times the length, L . Write the algebraic expression.

1 point

Mark only one oval.

- A $5 - 3L$
- B $3L - 5$
- C $5 \times 3 \times L$
- D $-5 \times 3L$

3. 3. Eighteen times the width minus eight. Write the algebraic expression.

1 point

Mark only one oval.

- A $18 \times w \times 8$
- B $18 - w \times 8$
- C $18 \times w - 8$
- D $18 - 8 \times w$

4. 4. Twenty two times the area divided by twenty two. Write the algebraic expression. 1 point

Mark only one oval.

- A $20 \times 2 \times L \times W / 20 \times 2$
- B $20 + 2 \times L \times W / 20 + 2$
- C $20 + 2 \times (L \times W) / 20 + 2$
- D $(20 + 2) \times (L \times W) / (20 + 2)$

5. 5. The ratio of three to five divided by the ratio of four to seven. Write the algebraic expression. 1 point

Mark only one oval.

- A $3 + 5 / 4 + 7$
- B $(3 + 5) / (4 + 7)$
- C $(3 \times 5) / (4 \times 7)$
- D $(3/5) / (4/7)$

6. 6. Simplify this expression: $(100 + 4m) 20$ 1 point

Mark only one oval.

- A $200 + 80m$
- B $24m + 2000$
- C $80m + 2000$
- D $2000 + 80n$

7. 7. Simplify this expression: $0.75(3.5a - 6b)$

1 point

Mark only one oval.

- A $2.625a - 6b$
- B $2.625a - 4.5b$
- C $2.625 - 4.5b$
- D $2.625b - 4.5a$

8. 8. Simplify this expression: $0.5(25 - 0.5x)$

1 point

Mark only one oval.

- A $12.5 - 0.25x$
- B $12.5 - 0.5x$
- C $25.5 - 0.10x$
- D $12.5 - 0.25$

9. 9. Simplify this expression: $0.25(0.25v + 0.25)$

1 point

Mark only one oval.

- A $0.5 + 0.25v$
- B $0.5v + 0.5$
- C $0.0625 + 0.0625v$
- D $0.0625u + 0.0625$

10. 10. Simplify this expression: $0.75(8m + 20n)$

1 point

Mark only one oval.

A $15m + 6n$

B $6m + 20n$

C $15n + 6m$

D $6n + 20m$

11. 11. Half of the seventh graders, s , and one fourth of the eighth graders, e , were divided into ten teams. Write an algebraic expression.

1 point

Mark only one oval.

A $(0.5e + 0.25s) / 10$

B $(0.5s + 0.25e) / 10$

C $(0.5e / 10) + (0.25s / 10)$

D $0.5s + (0.25e / 10)$

12. 12. Thirty percent of the green house flowers, g , are added to 25 ferns, f , for the school garden. Write an algebraic expression.

1 point

Mark only one oval.

A $30 + 25f$

B $30g + 25f$

C $0.3g + 2.5f$

D $0.3g + 25f$

13. 13. Four less than three times the number of egg orders, e , and six more than two times the number of waffle orders, w . Write an algebraic expression. 1 point

Mark only one oval.

- A $(3e - 4) + (2w + 6)$
- B $(4 - 3e) + (6 + 2w)$
- C $(4 - 3e) \times (6 + 2w)$
- D $(3e - 4) \times (6 + 2w)$

14. 14. Thirty-five percent of the revenue produced at the auction will go to the charity. The morning participants, m , spent an average of \$50 each. The afternoon attendees, a , spent an average of \$75 each. Write an algebraic expression to find total revenue for charity. 1 point

Mark only one oval.

- A $35(50m + 75a)$
- B $0.35(50m + 75a)$
- C $0.35(50m) + 75a$
- D $0.35(50m - 75a)$

15. 15. Twenty customers bought the portable drill, d , when it was on sale. Twelve of the customers also bought the charger, c , that goes with it. Write an algebraic expression to find total cost. 1 point

Mark only one oval.

- A $(20 \times c) + (20 \times d)$
- B $(12 \times c) \times (20 \times d)$
- C $(20 \times c) \times (12 \times d)$
- D $(12 \times c) + (20 \times d)$

16. 16. A construction worker bought several bottles, b , of juice for \$3 at the convenience store. She paid for them with a \$20 bill. If j represents the number of bottles of juice, write an expression for the change she should receive. 1 point

Mark only one oval.

- A $3 \times b - 20$
- B $20 - (3 \times b)$
- C $(3 \times b) - 20$
- D $(20 - 3) \times b$

17. 17. A giant bamboo plant grew an average of 18 centimeters per year. The botanist started measuring the plant when it was 5 centimeters tall. If y represents the number of years the botanist has measured the plant, what expression represents its height? 1 point

Mark only one oval.

- A $18 - 5 + y$
- B $18 - 5y$
- C $5y + 18$
- D $5 + 18y$

18. 18. A swimmer swam 32 kilometers, s , and walked 23 kilometers, w , in two days. What was the average distance travelled in one day? Write an algebraic expression. 1 point

Mark only one oval.

- A $23s + 32w / 2$
- B $(23s + 32w) / 2$
- C $23w + 32s / 2$
- D $(23w + 32s) / 2$

19. 19. Fourteen tickets, t , to the movies cost \$156. Seven people bought popcorn, p , for \$8 each. Eleven people bought drinks, d , for \$5 each. Write an algebraic expression to find the total cost. 1 point

Mark only one oval.

- A $156 \times t + 8 \times p + 5 \times d$
- B $156 \times t + 8 \times p \times 5 + d$
- C $156 \times t \times 8 \times p \times 5 \times d$
- D $156 + t \times 8 + p \times 5 + d$

20. 20. Simplify this expression: $0.2(3b - 15c)$ 1 point

Mark only one oval.

- A $0.6b - 15$
- B $0.6b - 15c$
- C $0.6b - 3c$
- D $0.6 - 3c$

21. 21. You can find the word of the day by going back and finding the answer to question #7. Use that letter a, b, c, or d, to answer this question. (This is your bonus point question) 1 point

Mark only one oval.

- A Drive
- B Perseverance
- C Fire
- D Courage

Google Forms