

Expressions

1. Label as an equation or expression.

a. $2x - 3 = 8 + x$ b. $y^2 - 9$ c. $4 + 2 = 6$ d. $\frac{1}{2}x^4 - 5$ e. $\frac{T + 2D}{C}$

2. Label as a variable, term, or coefficient.

a. $7x$ b. $4xy^3$ c. z d. $\frac{2}{5}x^2$ e. $8y$

3. Fill in the blanks with one of the words: 'an expression', 'an equation', or 'a variable'.
Give an example of each.

_____ always has an equal sign ('=').

_____ is denoted by a single letter.

_____ consists of variables, numbers, and operations.

4. Find the value of the expressions. Simplify first.

a. $\frac{8 \times 12}{2}$ b. $\frac{33}{3} \times \frac{8}{16}$ c. $\frac{21 \times 6}{2 \times 14}$ d. $\frac{462}{2} \times 120 - 500$

5. Find the value of the expressions.

a. $2x + 18$
for $x = 5$

b. $\frac{355}{z} \times 13$
for $z = 5$

c. $20 + \frac{2y + 1}{3}$
for $y = 10$

d. $x^2 - 2x + 9$
for $x = 5$.

6. Fill out the table below by using the given formula to convert each temperature from Celsius to Fahrenheit.

Temperature in °C	Formula $F = \frac{9}{5}C + 32$	Temperature in °F
a. 10°		
b. 25°		
c. 7°		

7. Write an expression for each scenario, then find its value.

- a. 22 more than 28. c. The sum of 3.5 and 4.2 divided by 7.
- b. The difference of 1,200 and 300, multiplied by 30. d. 3.04 more than the product of 7.98 and 2