

Topic: Variables

Question: Which of these is most likely to be used as a variable?

Answer choices:

A a

B b

C x

D m



Solution: C

We typically use letters at the end of the alphabet for variables, and letters at the beginning of the alphabet for constants, or constant coefficients.

Because x is the only letter from the end of the alphabet, it's more likely than all the other choices to be used as a variable.



Topic: Variables

Question: Identify the terms in the equation.

$$3\sqrt{x} + 6y^2 = ab^2 + 2$$

Answer choices:

- A y^2
- B \sqrt{x} and y^2
- C $6y^2$, ab^2 , and 2
- D $3\sqrt{x}$, $6y^2$, ab^2 , and 2



Solution: D

A term is a single number or variable, or a number and variable multiplied together. Terms are separated by operators like addition and subtraction.

There are two terms on the left side of the equation, $3\sqrt{x}$ and $6y^2$, and two terms on the right side of the equation, ab^2 and 2.



Topic: Variables

Question: Identify the coefficient(s) in the expression.

$$ax^2 + bx + c$$

Answer choices:

- A $a, b, \text{ and } c$
- B ax^2 and bx
- C a and b
- D c



Solution: C

A coefficient is a constant that multiplies a variable. The constant a is a coefficient on x^2 , and b is a coefficient on x .

The value c is a constant, not a coefficient.

