Year 7 Pretest for Algebra – Widmer

Question 1

Start with a number, multiply by three and then add five.

Which algebraic expression fits this sentence?

a) $3y + 5$

b) $5y + 3$

Question 2

a^4 means:

a. $a + a + a + a$

b. $a \times a \times a \times a$

c. $4 \times a$

d. $4 + a$

Question 3

If you triple m you would have the expression:

a) $m + 3$

b) $\dfrac{m}{3}$

c) $3m$

d) m^3

Question 4

True or false?

The algebraic expression $3(y + 5)$ means to multiply an unknown number by 3 and then add 5.

a) True

b) False

Question 5

True or false?

Algebra is a tool used to write rules, patterns and sentences using symbols instead of words.

a. True

b. False

Question 6

If $m = 7$, then:

$m^2 = $ ☐

Question 7

Evaluate means to:

a) put in order

b) work out the largest value

c) find the value

d) calculate the sum

Question 8

Enter the missing whole number in the answer.

If $a = 3$ and $b = \frac{1}{2}$, then:

$2a + b = $ ☐ $\frac{1}{2}$

Question 9

True or false?

'Substituting' means replacing variables with numbers.

a. True

b. False