Maths

Substitute a positive term into a formula

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Substitute a positive term into a formula

1. When a = 9, b = 3 and c = 0.5 find the value for the expressions.

a) 5a
b) 5a + 10c
c) 2(a + c)
d) c(5 + a)
e) 9(b − c)
f) ab − c
g) $a^2 + b$
h) $3(a^2 + b)$

2. Use the formula t = 10r − 5 to complete the questions.
a) Find the value of t when r = 16

b) Find the value of r when t = 20

3. Use the formula X = 0.5(a + b)h to complete the questions.
a) Find the value of X when a = 6, b = 8 and h = 5
b) Find the value of h when X = 30, a = 10 and b = 20

Answers

Substitute a positive term into a formula

1. When a = 9, b = 3 and c = 0.5 find the value for the expressions.

a) 5a   45

b) 5a + 10c   50

c) 2(a + c)   19

d) c(5 + a)   7

e) 9(b − c)   22.5

f) ab − c   26.5

g) $a^2 + b$ 84

h) $3(a^2 + b)$ 252

2. Use the formula t = 10r − 5 to complete the questions.

a) Find the value of t when r = 16

t = 155

b) Find the value of r when t = 20

r = 2.5

3. Use the formula X = 0.5(a + b)h to complete the questions.

a) Find the value of X when a = 6, b = 8 and h = 5   X = 35

b) Find the value of h when X = 30, a = 10 and b = 20   h = 2