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## Evaluate variable expressions

Evaluate the following expressions below.

**a.** (x - 5) x 10, given that x = 15.

**b.** 24u + 129, given that u = 12.

**c.** (27 ÷ s) - y, given that s = 9 and y = 1

**d.** t - ( 40 x 15), given that t = 927



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Solution

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## Evaluate variable expressions

Evaluate the following expressions below.

**a.** (x - 5) x 10, given that x = 15.

Substitute 15 in place of x

(x - 5) x 10 = (15 - 5) x 10

= 10 x 10

= 100

Therefore, (x - 5) x 10 = 100

**b.** 24u + 129, given that u = 12.

Substitute 12 in place of u

24u + 129 = (24 x 12) + 129

= 288 + 129

= 417

Therefore, 24u + 129 = 417

**c.** (27 ÷ s) - y, given that s = 9 and y = 1

substitute 9 in place of s and 1 in place of y

(27 ÷ s) - y = (27 ÷ 9) - 1

= (3) - 1

= 2

Therefore,(27 ÷ s) - y = 2

**d.** t - ( 40 x 15), given that t = 927

substitute 6 in place of t

t - ( 40 x 15) = 927 - ( 40 x 15)

= 927 - 600

= 327

Therefore,t - ( 40 x 15) = 327



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