

Evaluating Expressions Extra Practice

Use substitution to evaluate each expression for the given value of the variable. Show your work!

<p>13) $15e + 37$ (for $e = 5$)</p> $15 \cdot 5 + 37$ \checkmark $75 + 37$ (112)	<p>14) $19r$ (for $r = 8$)</p> $19 \cdot 8$ (152)	<p>15) $x^2 + 2x + 4 + x$ (for $x = 10$)</p> $10^2 + 2 \cdot 10 + 4 + 10$ $100 + 2 \cdot 10 + 4 + 10$ $100 + \checkmark 20 + 4 + 10$ $120 + 4 + 10$ $124 + 10$ (134)
<p>16) $7(4 + h)$ (for $h = 21$)</p> $7(4 + 21)$ $7(25)$ (175)	<p>17) $13 + w$ (for $w = 26$)</p> $13 + 26$ (39)	<p>18) $b - 15$ (for $b = 15$)</p> $15 - 15$ (0)
<p>19) $\frac{y}{12} + y$ (for $y = 72$)</p> $\frac{72}{12} + 72$ $6 + 72$ (78)	<p>20) $3b^2 + 5b$ (for $b = 2$)</p> $3 \cdot 2^2 + 5 \cdot 2$ $3 \cdot 4 + 5 \cdot 2$ $12 + 5 \cdot 2$ $12 + 10$ (22)	<p>21) $8e + 22$ (for $e = 42$)</p> $8 \cdot 42 + 22$ $336 + 22$ (358)
<p>22) $2x^2 - 11x + 6$ (for $x = 12$)</p> $2 \cdot 12^2 - 11 \cdot 12 + 6$ $2 \cdot 144 - 11 \cdot 12 + 6$ $288 - 11 \cdot 12 + 6$ $288 - 132 + 6$ $156 + 6$ (162)	<p>23) $p^3 - 4p$ (for $p = 4$)</p> $4^3 - 4 \cdot 4$ $64 - 4 \cdot 4$ $64 - 16$ (48)	<p>24) $16(3 + a) - a$ (for $a = 13$)</p> $16(3 + 13) - 13$ $16(16) - 13$ $256 - 13$ (243)