

Knox Academy

Mathematics Department



4 Question Challenge on...

Evaluating Formulae

Q1 $T = 20 + 7w$, find T when $w = 4$.

Q2 $P = Q \times R$, find P when $Q = 5$ and $R = 7$.

Q3 $A = \frac{bc}{10}$, find A when $b = 6$ and $c = 2.5$.

Q4 If $x = 3w^2 + 2v$, find x when $w = 5$ and $v = 10$.

Q1
$$\begin{aligned} T &= 20 + 7 \times 4 \\ &= 20 + 28 \\ &= \underline{\underline{48}} \end{aligned}$$

Q2
$$\begin{aligned} P &= 5 \times 7 \\ &= \underline{\underline{35}} \end{aligned}$$

Q3
$$\begin{aligned} A &= \frac{6 \times 2.5}{10} \\ &= \frac{15}{10} \\ &= \underline{\underline{1.5}} \end{aligned}$$

Q4
$$\begin{aligned} x &= 3 \times 5^2 + 2 \times 10 \\ &= 3 \times 25 + 2 \times 10 \\ &= 75 + 20 \\ &= \underline{\underline{95}} \end{aligned}$$