

N4 Maths E+F 1·1d

Worksheet 3

Outcome 2 - Substitution with positive numbers

Outcome 1 - Substitution with positive numbers and basic expressions

If $p = 3$, $q = 5$ and $r = 6$, calculate :-

- | | | | |
|---|-------------|--|---------|
|  1 | $p + r$ |  2 | $p + q$ |
|  3 | $p + q + r$ |  4 | $r - q$ |
|  5 | $q + r - p$ |  6 | $2p$ |
|  7 | $7q$ |  8 | qr |
|  9 | pr |  10 | $2pq$ |

If $p = 3$, $q = 5$ and $r = 6$, calculate :-

- | | | | |
|---|--------------------|--|---------------------|
|  1 | $3p + 2q$ |  2 | $7q - 4r$ |
|  3 | $6p + 3q - r$ |  4 | $5qr - 2p$ |
|  5 | $4pr \div 10$ |  6 | $10pq \div 2$ |
|  7 | $\frac{p + q}{10}$ |  8 | $\frac{qr}{2}$ |
|  9 | $7 - \frac{1}{2}r$ |  10 | $25 - \frac{1}{3}p$ |

Outcome 3 - Substitution with powers, roots and negative numbers

If $p = -1$, $q = -4$ and $r = 49$, calculate :-

- | | | | |
|---|-------------|--|------------|
|  1 | $3p + r$ |  2 | $2q - 4$ |
|  3 | $4p + 5q$ |  4 | $6q - p$ |
|  5 | q^2 |  6 | p^3 |
|  7 | $7p^2$ |  8 | $2q^3$ |
|  9 | $p^2 + q^2$ |  10 | $\sqrt{r}$ |