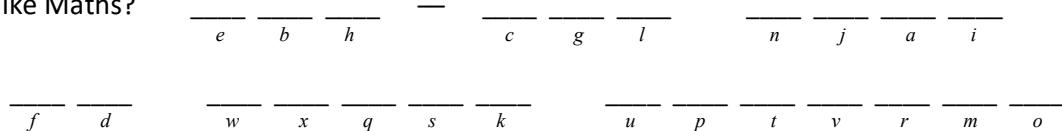


How many vampires like Maths?



Calculate if $a = 4$ and $b = -1$:

- a) ab
- b) $5a$
- c) $a + b$
- d) $2(a + 1)$
- e) $-b$
- f) $2a - b$
- g) $-2a$
- h) a^2

- i) six more than a number
- j) a number multiplied by six
- k) a number multiplied by itself six times
- l) six less than a number
- m) three more than two times a number
- n) two more than three times a number
- o) two times a number after six has been added
- p) six times a number after two has been added

Give an expression for:

- q) $a + b + b$
- r) $a + a + b + b$
- s) $a \times a + b \times b$
- t) $a + a \times b + b$
- u) $ab + ab$
- v) $a - b + a$
- w) $a + b - b$
- x) $a \times a + a \times a$

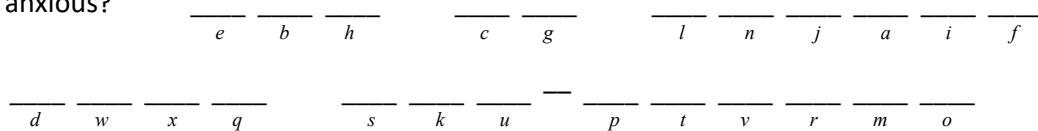
Simplify:

Answers

$-8 \rightarrow O$	$9 \rightarrow T$	$3x + 2 \rightarrow N$	$6(x + 2) \rightarrow R$	$a + ab + b \rightarrow$	$a \rightarrow C$
$-4 \rightarrow E$	$10 \rightarrow O$	$2n + 3 \rightarrow L$	$2(x + 6) \rightarrow A$	A	$2a + 2b \rightarrow U$
$1 \rightarrow O$	$16 \rightarrow E$	$6a \rightarrow E$	$x^6 \rightarrow T$	$2ab \rightarrow D$	$2a - b \rightarrow C$
$3 \rightarrow Y$	$20 \rightarrow N$	$n - 6 \rightarrow U$	$x + 6 \rightarrow D$	$2a^2 \rightarrow O$	$a^2 + b^2 \rightarrow N$

$a + 2b \rightarrow U$

Why was one-fifth so anxious?



Simplify:

- a) $a + a$
- b) $5a \times 2a$
- c) $a + b$
- d) $b \times a$
- e) $(-3a)^2$
- f) $2x - x$
- g) $2a \times 5ab$
- h) $4a^2 + 3a^2$

Expand:

- i) $5(x - 2)$
- j) $5(2 - x)$
- k) $x(2 - x)$
- l) $a(a + b)$
- m) $-5(x + 2)$
- n) $-5(y - 2)$
- o) $5x(x + 2)$
- p) $a(2 - a)$

Factorise:

- q) $3a + 6$
- r) $a^2 + 3a$
- s) $2a + ab$
- t) $10a + 5b$
- u) $ab + ac$
- v) $3a + 3$
- w) $a^2 + ab$
- x) $5a + 5ab$

Answers

$2a \rightarrow A$	$2x - x^2 \rightarrow W$	$3(a + 2) \rightarrow T$	$a^2 + ab \rightarrow A$	$5x - 10 \rightarrow Y$	$a(b + c) \rightarrow O$
$5(2a + b) \rightarrow E$	$9a^2 \rightarrow C$	$a(a + b) \rightarrow E$	$10a^2 \rightarrow O$	$10 - 5x \rightarrow W$	$a(2 + b) \rightarrow T$
$-5y + 10 \rightarrow L$	$a(a + 3) \rightarrow T$	$a + b \rightarrow I$	$ab \rightarrow F$	$10a^2b \rightarrow T$	$-5x - 10 \rightarrow H$
$5a(1 + b) \rightarrow L$	$2a + a^2 \rightarrow T$	$3(a + 1) \rightarrow N$	$5x^2 + 10 \rightarrow S$	$x \rightarrow S$	$7a^2 \rightarrow Z$