How many vampires like Maths?

___	___	___	—	___	___	___		___	___	___	___
e	*b*	*h*		*c*	*g*	*l*		*n*	*j*	*a*	*i*

___	___		___	___	___	___	___		___	___	___	___	___	___	___
f	*d*		*w*	*x*	*q*	*s*	*k*		*u*	*p*	*t*	*v*	*r*	*m*	*o*

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

Give an expression for:

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

Simplify:

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) $a \times a + a \times a$

Answers

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

Why was one-fifth so anxious?

___	___	___		___	___		___	___	___	___	___	___
e	*b*	*h*		*c*	*g*		*l*	*n*	*j*	*a*	*i*	*f*

___	___	___	___		___	___	___	—	___	___	___	___	___	___
d	*w*	*x*	*q*		*s*	*k*	*u*		*p*	*t*	*v*	*r*	*m*	*o*

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

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

MAN vs MATHS 2025