FORMULAE

Name:

Assessment Criteria: Use formulae from mathematics and other subjects; substitute numbers into expressions and formulae; derive a formula and, in simple cases, change its subject

1. Using the values a = 2, b = 3, c = 1 and d = 0, evaluate these expressions and match them up to their corresponding answers.

$b + c^2$	9
$a(b - a)$	4
$b^2 + d$	2
$a + b$	5

2. In each of the following formulae, find the value of the subject variable:

a) P = 2w + 4z: Find P when w = -3 and z = 5

P = _____

b) $F = \frac{3(a+b)}{4}$: Find F when a = 12 and b = -16

F = _____

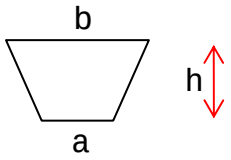
d) $W = \frac{dt + rt^2}{2}$: Find W when d = 0.4, r = 1.3, t = 0.8

W = _____

c) $M = T^2 + PQ$: Find M when $T = \frac{2}{5}$, $P = \frac{7}{8}$, and $Q = \frac{3}{2}$

M = _____

3. Find a formula for the area of this isosceles trapezium. Explain clearly how you found the formula.



4. Make w the subject of the formula C = 2w + y.

w = _____

Overall, I think my success level is: Low ○ ○ ○ ○ High

Q	FORMULAE	☺	☹
	I can substitute positive integers into expressions and formulae		
	I can substitute negative integers into expressions and formulae		
	I can substitute numbers including decimals into expressions and formulae		
	I can substitute numbers including fractions into expressions and formulae		
	I can derive a formula in simple cases		
	I can change the subject of a formula in simple cases		
	I can justify generalisations, arguments or solutions		

I need to practise …