

National 4 Maths Homework 2

1) Collect like terms:

a) $y + y + y$

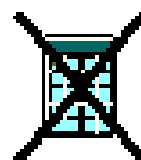
b) $3a + b + 2c - a - b$

c) $3a + 3b - b + 4c - c$

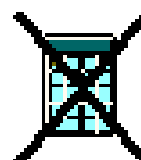
d) $x + 2x + x^2 + 3x^2$

e) $xy + 2ab + 3xy - 2ab$

f) $5b^3 - a^2 + 2b^2 - a$



2) A company bonus scheme means that £63 400 will be equally shared between 200 members of staff.
How much will each person receive?



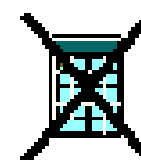
3) Round these numbers as each question indicates.

a) 67 845 to 1 d.p.

b) 312 206 to 2 d.p.

c) 4 976 13 to 2 d.p.

d) 5 723 6632 to 1 d.p.



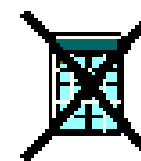
4) For $a = 3$, $b = 2$, $c = -1$ and $d = -4$, evaluate:

a) $3a^2$

b) $2b^2 + 4a$

c) $3c + 2d$

d) $d^2 + c^2$



5) Evaluate.

a) 48×10

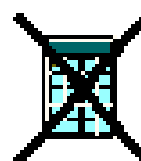
b) $87\,000 \div 100$

c) 34×1000

d) $5600 \div 10$

e) 123×100

f) $90\,000 \div 1000$



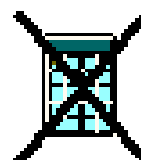
6) Expand.

a) $3(a + 2)$

b) $6(k - 1)$

c) $12(2 - q)$

d) $2(7x - 3y)$



7) Expand and simplify.

a) $5r(2s - 3r) - 5r^2$

b) $10(2r + 3) - 6r$

c) $7(f - 3) + 4$

d) $4 + 2(i - 6)$

