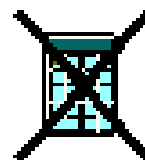


## S2 (M) Maths Homework 12

1) Expand and simplify.

a)  $5(t + 3) - 3t - 8$

b)  $6(b - 3) - 3a + 7$

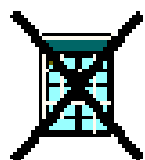


2) Multiply out the brackets and solve.

a)  $3(x - 2) = 12$

b)  $4(x + 7) = 44$

c)  $2(x - 4) = 14$



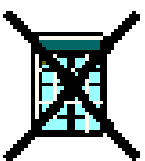
3) Expand and simplify.

a)  $8(x + 3) - 5x + 41$

b)  $8(c + 5) - c - 31$

c)  $2(5b + 2) + 3(7b + 4)$

d)  $6(7s + 9) - 8(5s + 6)$



4) Factorise the following.

a)  $3t + 9$

b)  $12x^2 - xy^2$

c)  $4p - 8p^2$

d)  $15mn + 10m$

e)  $4r - 12s$

f)  $9ab - b^2$



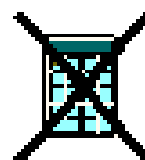
5) Evaluate.

a)  $\frac{1}{2}$  of 128

b)  $\frac{1}{8}$  of 232

c)  $\frac{2}{7}$  of 126

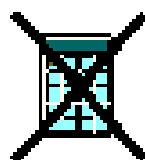
d)  $\frac{3}{5}$  of 850



6) A pair of shoes usually costs £96.

They are reduced by a  $\frac{1}{3}$  in a sale.

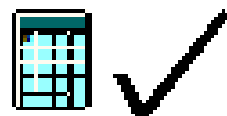
Find the new price of the shoes.



7) A monthly train ticket costs £125.

Fares increase by 10%.

What is the new cost of the monthly train ticket?



8) Find.

a)  $\frac{1}{4} + \frac{1}{3}$

b)  $\frac{5}{8} - \frac{1}{2}$

