

MA = 41 days to go!

6 (a) The price of a TV is increased by 20%.

In a sale this price is decreased by 20%.

By choosing any starting price for the TV, show that the final sale price is lower than the starting price.

[3]

(b) Calculate the overall percentage decrease.

Answer _____ % [2]

(c) Would the outcome be the same if the 20% decrease was applied first, followed by the 20% increase? Justify your answer.

[2]

12 After a 7.5% pay rise Mr Jones' salary was £29 455

What was his salary before the pay rise?

Answer £ _____ [3]

17 The line l_1 passes through the points $(-1, -4)$ and $(2, 8)$.

The line l_2 is perpendicular to l_1 and passes through the point $(1, 1)$.

Find the equation of the line l_2 in the form $y = mx + c$.

Answer _____ [5]