S3 National 4

Revision for November Test (4)

1. A TV is reduced by 30% in a sale.
   If the TV originally cost £350, calculate the sale price.

2. In an election the votes for the candidates were as follows:
   Red Party 34%
   Blue Party 40%
   Green Party 16%
   Yellow Party 10%
   If 48 000 voters voted in the election, how many voted for the Green Party?

3. Multiply out the brackets:
   (a) $2(x + 4)$ (b) $5(y – 5)$ (c) $3(2x + 3)$ (d) $x(x + 2)$ (e) $y(y – 7)$

4. Multiply out the brackets and collect like terms:
   $2(3x + 2) + 5x$

5. Solve the equations:
   (a) $2x + 3 = 25$ (b) $3y – 4 = 20$ (c) $3(x + 3) = 27$ (d) $3x + 2 = x + 26$

6. A photograph measures 8 cm × 10 cm.
   Evvie makes an enlargement which is 40 cm long.
   Calculate the width of the enlargement.

7. Factorise:
   (a) $2x + 6$ (b) $3y + 12$ (c) $4z – 16$ (d) $xy + 9x$

8. Max drives his car at 60 mph for 1 hour 30 minutes along the motorway. What distance does he drive?

9. Elliot is a joiner. He is paid £8.50 per hour on weekdays and time-and-a-half on Saturdays.
   Calculate Elliot's wage in a week when he worked:
   Mon – Thurs 8am to 4pm
   Fri 8am to 2pm
   Sat 9am to 12 noon.

10. Storm went to Paris.
    She bought a pair of earrings costing 23€.
    Calculate how much the earrings cost in pounds if the exchange rate is £1 = 1.15€.

11. Cara wants to buy a sofa.
    She sees on she likes for £599.
    She can take out a HP agreement of 10% deposit plus 12 monthly payments of £50.
    How much more expensive is it to buy the sofa on HP?

12. The speed limit in town is 30mph.
    A car travels 7 miles in 15 minutes. Is it breaking the speed limit?