***National 5 Revision***

1. 1. The formula for the circumference of a circle is . Rearrange tis formula to find the diameter when given the area.
   2. The formula for the area of a circle is. Rearrange tis formula to find the radius when given the area.
   3. To change from to we use the formula What would be the formula to change from to .
   4. Einstein used the formula to calculate energy dependant on mass and speed of light . How could he calculate the speed of light given the mass and the energy produce?
2. Expand the following and collect like terms:
   1. b. c.
3. e. f.
4. Evaluate the following expressions when and .
   1. b. c.
5. e. f.
6. Solve :
   1. b. c.
7. e. f.
8. Find:
9. A car is valued at £12 000. It has decreased in value by 25% since bought. How much is it worth now?
10. A limited-edition pack states that it contains 20% extra than the original. If the limited-edition package weighs 450g, how much does the standard pack weigh?
11. Find:
12. b. c.