## Homework 11

Where a question asks you to show working, you will only be awarded the mark for a correct answer if it is supported by an appropriate method

Due in:


| 5. One of the angles in an isosceles triangle is $70^{\circ}$. What could the other two angles of the triangle be? | 8. $3 / 4$ of an amount is $£ 45$. What is $21 / 2$ times the amount? |
| :---: | :---: |
| 6. The mean of a set of 5 numbers is 13 . Four of the numbers are 6, 10, 11 and 15. What is the fifth number? | 9. Share 480 in the ratio $2: 3: 5$ |
| 7. A pair of jeans are reduced by $25 \%$ in the sales. They originally cost £35. How much are they in the sale? | 10. Write down the first 5 terms of the sequence $T(n)=3 n-4$ |


| 11. Solve the equation: $5 x-8=2(x+6)$ | 14. Round 5739 to 2 significant figures. |
| :---: | :---: |
| 12. Convert 3 gallons into litres. | 15. Calculate the length of the side marked x . Show your working. |
| 13. Calculate the area of the shape: | 16. Expand and simplify: $(2 m+5)(m-4)$ |


| 17. Bisect the angle using |  |
| :--- | :--- |
| compasses and a straight |  |
| edge. | 19. NAME the regular polygon <br> with an exterior angle of $36^{\circ}$ |
| 18. A rectangle base 38mm <br> and height 27mm is enlarged <br> by a scale factor of 3 . What is <br> the perimeter of the new <br> rectangle? | 20. Write the equation of a <br> line which is parallel to: |
| y=3x-4 |  |

## Total:

