## Homework 16

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:

| 1. The diameter of a circle is <br> 48mm. Calculate its area. <br> Give your answer correct to <br> 2dp | 3. Using a clear written <br> method: |
| :--- | :--- |
|  |  |


| 5. One of the angles in an isosceles triangle is $53^{\circ}$. What could the other two angles of the triangle be? <br> (Hint: there are two possible solutions!) | 8. $\frac{3}{7}$ of an amount is \&21. What is $21 / 4$ times the amount? <br> Show your working out. |
| :---: | :---: |
| 6. The mean of a set of 5 numbers is 21 . Four of the numbers are 15, 19, 23 and 27. What is the fifth number? | 9. Share $\$ 560$ in the ratio 3:5:6. |
| 7. A toaster is reduced by $20 \%$ in the sales. It originally cost $£ 80$. How much is it in the sale? | 10. Write down the first 5 terms of the sequence $T(n)=3 n-6$ |


| 11. Solve the equation: $4(2 x-3)=5 x+6$ | 14. Round 25.699 to 1 significant figure. |
| :---: | :---: |
| 12. Convert 36 gallons into litres. | 15. Calculate the length of the side marked $x$. Show your working giving your answer to 1 decimal place. |
| 13. Calculate the area of the shape: | 16. Expand and simplify: $(x+5)(2 x+3)$ |


| 17. Construct an equilateral <br> triangle using compasses and <br> a straight edge. | 19. How many sides does a <br> regular polygon with an exterior <br> angle of $30^{\circ}$ have? |
| :--- | :--- |
|  |  |

## Total:

