## Homework 17

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 |
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| 68mm. Calculate its area. |
| Give your answer correct to |
| 2dp |$\quad$| 3. Using a clear written |
| :--- |
| method: |
|  |
| Find the LCM of 9 and 24. |
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| 5. One of the angles in an isosceles triangle is $48^{\circ}$. What could the other two angles of the triangle be? <br> (Hint: there are two possible solutions!) | 8. $\frac{4}{11}$ of an amount is $\$ 16$. What is $51 / 2$ times the amount? Show your working out. |
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| 6. The mean of a set of 6 numbers is 9 . Five of the numbers are 1, 2, 3, 5 and 18. What is the sixth number? | 9. Share $£ 246$ in the ratio 8:6:4. |
| 7. A jacket is reduced by $30 \%$ in the sales. It originally cost £74. How much is it in the sale? | 10. Write down the first 5 terms of the sequence $T(n)=-2 n+6$ |


| 11. Solve the equation: $3(5 x-1)=4(3 x+2)+1$ | 14. Round 439.614 to 2 significant figure. |
| :---: | :---: |
| 12. Convert 63 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: $(x+9)(2 x-4)$ |


| 17. Construct a $60^{\circ}$ angle <br> using compasses and a <br> straight edge. | 19. What is a regular polygon <br> with an exterior angle of $36^{\circ}$ <br> called? |
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## Total:

