## 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. Circle the prime <br> numbers and draw squares <br> around the square numbers <br> in the list below: | 3. Showing a clear written <br> method calculate the <br> product of 48 and 54. |
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| $10,23,49,47$, |  |
| $63,169,250$ | 4. Two thirds of an amount <br> is 16. What is one and one <br> half of the amount? |
| 2. Showing a clear written <br> method divide 3290 by 14. |  |


| 5. Draw the graph of $\mathrm{y}=\mathrm{x}$ |
| :--- | :--- |
| on the axes below. | | 8. Calculate the perimeter |
| :--- |
| of the shape below: |


| 11. The dimensions of a cuboid are: <br> Length $=8 \mathrm{~cm}$ <br> Width $=7 \mathrm{~cm}$ <br> Height $=40 \mathrm{~mm}$ <br> What is the volume of the cuboid? | 14. Substitute the values $a=6, b=-4, c=3$ <br> into the expression $2 a^{2}-4(b+2 c)$ |
| :---: | :---: |
| 12. One of the angles in an isosceles triangle is $138^{\circ}$. What are the other two angles of the triangle? | 15. The mean of a set of 6 numbers is 17 . Five of the numbers are $3,8,10,15$ and 22. What is the sixth number? |
| 13. Estimate the answer to $\frac{13.2^{2} \times 19.8}{11.2^{3}}$ | 16. Write 225 as the product of its prime factors. |


| 17. A toaster is reduced by <br> $15 \%$ in the sales. It <br> originally cost $£ 55$. How <br> much is it in the sale? | 19. If the graph of <br> $y=10 x-2$ is drawn what <br> are the coordinates of the <br> y intercept? |
| :--- | :--- |
| 18. Calculate the answer <br> using a clear written <br> method: <br> $15.9 \times 11$ | 20. A circle has a radius of <br> 8.4 cm. What is the <br> circumference? Give your <br> answer to 1 decimal place. |
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Total:

