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:

| Circle the prime |
|--------------------------------------|
| numbers and draw squares |
| around the square numbers |
| in the list below: |

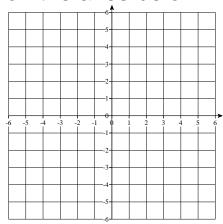
3. Showing a clear written method calculate the product of 48 and 54.

10, 23, 49, 47,

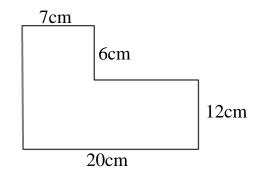
63, 169, 250

- 2. Showing a clear written method divide 3290 by 14.
- 4. Two thirds of an amount is 16. What is one and one half of the amount?

5. Draw the graph of y = x on the axes below.



8. Calculate the perimeter of the shape below:



- 6. Convert 8.34 kilometres into metres then centimetres.
- 9. Write down the first five terms of the following sequence:

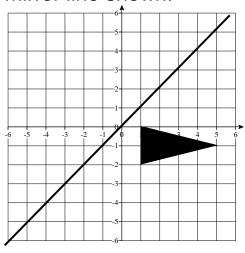
$$T(n) = 6n + 2$$

7. Solve the equation: (Note: The answer is a negative fraction!)

.

$$2(3x - 4) = -10$$

10. Reflect the shape in the mirror line shown.



| 11. The dimensions | of | a |
|--------------------|----|---|
| cuboid are: | | |

Length = 8 cm Width = 7cm Height = 40 mm What is the volume of the cuboid?

14. Substitute the values
$$a = 6$$
, $b = -4$, $c = 3$ into the expression

$$2a^2 - 4(b + 2c)$$

12. One of the angles in an isosceles triangle is138°. 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?

$$\frac{13.2^2 \times 19.8}{11.2^3}$$

16. Write 225 as the product of its prime factors.

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

Total:

