

Homework 24

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

Due in:

You MUST show your working

<p>1. . A sector of a circle has an angle of 45°, and a radius of 6cm. What is the perimeter of the sector?</p>	<p>3. Using a clear written method:</p> $\frac{4}{9} \times \frac{1}{3}$
<p>2. Find the midpoint of (3, 5) and (7, 9).</p>	<p>4. Factorise fully; $12ab + 6ab - 9bc$</p>

5. What is the sum of the interior angles of a pentagon?

8. What decimal multiplier would you use to increase an amount by 12%?

6. Complete the cumulative frequency table;

Eggs	Frequency	CF
1-3	3	
4-6	4	
7-9	2	
10-12	1	
13-15	2	

9. An amount of money is shared in the ratio 4:3; the larger amount is worth £56. How much money was shared?

7. Alice got 13 out of 24 in a spelling test. What percentage of the answers did she get right?

10. Is 48 in the sequence $T(n) = 2n - 6$?

11. Solve the equation remember to give BOTH solutions:

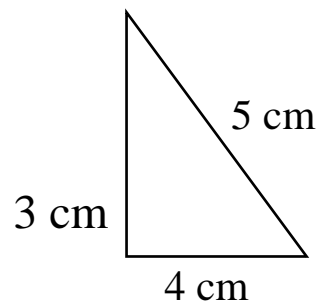
$$x^2 = 36$$

14. Estimate by founding to 1 sig fig.

$$6.7 \times 31$$

12. An object travels 10km in half an hour. What is its speed in Km/h?

15. Is the triangle shown a right angled triangle? You must show your working out.



13. A cube has the volume of 8cm^3 . What is its surface area?

16. Expand and simplify:

$$3a + 2a(4 - 3b)$$

17. The rectangle base 4cm and height 5cm is enlarged by a scale factor of 3. What is the area of the enlarged shape?

19. Showing a complete written method divide 32 by 0.8?

18. Showing a complete written method find the product of 3.8 and 7.4.

20. Find the gradient of the line segment formed by joining the points (3, 5) and (7, 9).

Total:

