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	
1. The diameter of a circle is	3. Using a clear written
32cm. Calculate its area.	method:
Give your answer correct to	$\frac{8}{9} + \frac{2}{5}$
1dp	9 5
2. Find the LCM of 8 and 14.	4. Simplify the following
	expression.
	1 ² 0 ⁵
	<u>4a² x 6a⁵</u> 3a⁴
	38

5. One of the angles in an isosceles triangle is 28°. What could the other two angles of the triangle be? (Hint: there are two possible solutions!)	8. Two thirds of an amount is 12. What is one and one quarter of the amount? Show your working out.
6. The mean of a set of 6 numbers is 5. Four of the numbers are 3, 3, 5, 9 and 10. What is the sixth number?	9. Share £480 in the ratio 12:4.
7. A jumper is reduced by 25% in the sales. It now costs £45. How was it originally?	10. Write down the first 5 terms of the sequence T(n) = 10 - 2n

11. Solve the equation: 7(2x + 3) - 8 = 55	14. Round 23589 to 3 significant figures.
12. Convert 21pints into litres.	15. Calculate the length of the side marked x. Show your working giving your answer to 1 decimal place. 13cm $x \text{ cm}$ 8 cm
13. Calculate the area of the shape: 11 cm 23 cm	16. Expand and simplify: (a - 1)(a + 1)

17. Construct an equilateral triangle using compasses and a straight edge.	19. What is the sum of the interior angles of a heptagon?
18. A circle has a diameter of 14cm. It is enlarged by a scale factor of 0.5. What is the circumference of the new circle?	20. Write the equation of a line which is parallel to: y = 3(3 - 2x)

Total:

