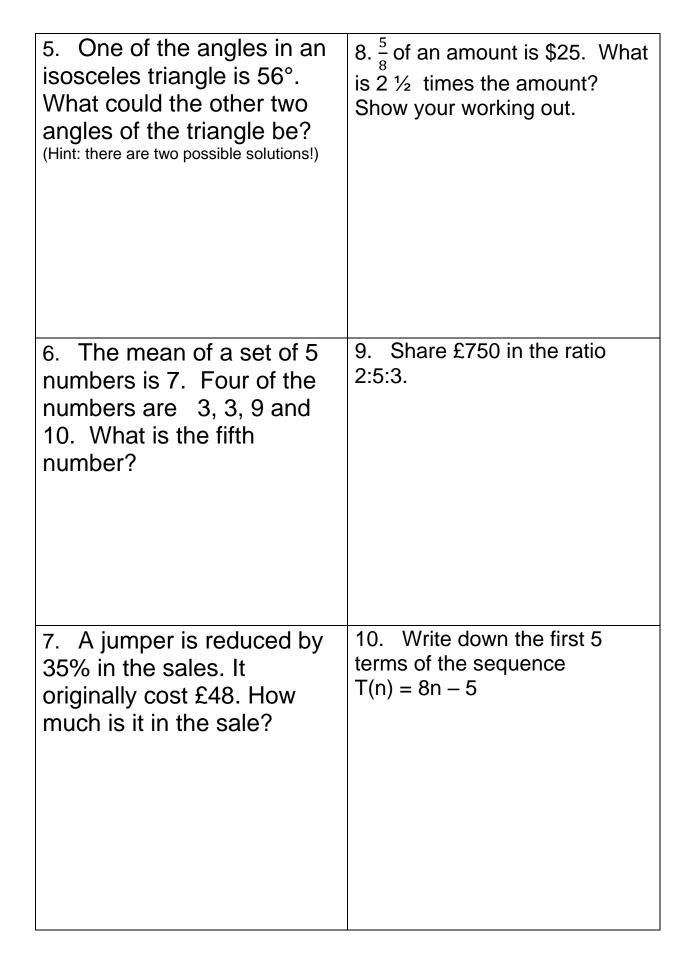
## Homework 21

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
28cm. Calculate its area.	method:
Give your answer correct to	5 2
1dp	$\frac{5}{9} - \frac{2}{5}$
	j G
2. Find the LCM of 20 and 24.	4. Simplify the following
	expression.
	<b>5</b> -2 <b>4</b> - 5
	5c <sup>2</sup> x 4a <sup>5</sup> 2a <sup>3</sup>
	Za



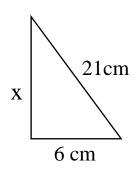
11. Solve the equation
------------------------

$$3(2x + 7) + 2(5x - 3) = -1$$

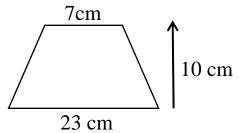
14. Round 16.258 to 2 significant figures.

## 12. Convert 49 pints 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:

$$(x - 10)(3x + 4)$$

- 17. Construct a perpendicular from the point marked through the line using compasses and a straight edge.
- 19. What is a regular polygon with an exterior angle of 18° called?

(You will need to look the name up)

- 18. A circle has a diameter of 11cm. It is enlarged by a scale factor of 5. What is the circumference of the new
- 20. Write the equation of a line which is parallel to:

$$y = 2(3x + 5)$$

Total:

circle?

