

# Homework 17

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Due in:

<p>1. <math>36 \div 1.2</math> (must show a WRITTEN method)</p>	<p>3. <math>1\frac{2}{3} + 2\frac{1}{4}</math></p>
<p>2. Write the number below in standard form.</p> <p style="text-align: center;">2530000</p>	<p>4. <math>\frac{3}{7} \times \frac{3}{4} \times 28</math></p>

5. Evaluate

$$2 \times (3 - 7)^2$$

8. If 5 numbers have a mean of 10, and four of the numbers are 15, 4, 11, and 6, what is the fifth number?

6. Calculate

$$13 \times 17 - 3 \times 17$$

9. Estimate the mean from this frequency table.

x	0 -	2 -	4 -	6 - 8
f	2	4	7	4
fx				

7. 60 pupils are asked for their favourite holiday destination and 11 say Spain. What angle would this be on a pie chart?

10. Factorise;

$$x^2 + 5x + 6$$

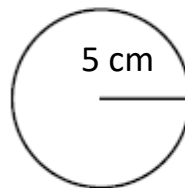
11. Solve  $4(3x - 1) = 56$

14. A bag contains 3 red, 4 blue and 17 yellow counters. Find  $P(\text{not red})$ ?

12. Make  $b$  the subject

$$a = \frac{5b - 2}{6}$$

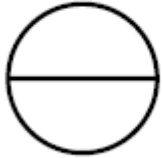
15. What is the area of this circle?



13. Alice and Ben share some money in the ratio 3:5. Ben receives £12 more than Alice, how much money does Ben receive?

16. Write 35 as a percentage of 120.

17. The circumference of the circle is 14cm. Find the diameter correct to 1dp.



19. The surface area of a cube is  $150\text{cm}^2$ . Find its volume.

18. After an increase of 20%, the shirt now cost £60, what was its original price?

20. Simplify;

$$a^5 \times a^4$$

Total:

