# Homework 18

Due in:

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| 1. 2.3 x 1.2 (must show a WRITTEN method) | 3. $2\frac{2}{3} - 1\frac{1}{4}$ |
| 2. Write the number below in standard form.<br><br><br>48100 | 4. $\frac{3}{7} \times \frac{2}{3}$ x 28 |

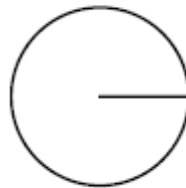| | |
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| 5. Evaluate<br><br>$12 \div 4 + (8 - 3)^2$ | 8. If 6 numbers have a mean of 7, and five of the numbers are 5, 4, 11, 7, and 6, what is the sixth number? |
| 6. Calculate<br><br>$24 \times 18 - 8 \times 24$ | 9. Estimate the mean from this frequency table.<br><br>| x | 3 - | 5 - | 7 - | 9 - 11 |<br>|---|---|---|---|---|<br>| f | 3 | 7 | 4 | 4 |<br>| fx | | | | | |
| 7. 36 pupils are asked for their favourite football team and 35 say Chelsea.  What angle would this be on a pie chart? | 10. Factorise;<br><br>$x^2 + 8x + 12$ |

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| 11. 4(2x + 1) = 34 | 14. A bag contains 4 red, 5 blue and 1 yellow counters. Find P(red or yellow)? |
| 12 Make b the subject $$a = \frac{4b + 3}{6}$$ | 15. The area of the circle is 38.4cm². Find the radius<br><br> |
| 13. Alice and Ben share some money in the ratio 3:5. Alice receives £16 less than Ben, how much money does Ben receive? | 16. Write 15 as a percentage of 75. |

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| 17. The circumference of the circle is 38cm. Find the radius correct to 1dp. | 19.The surface area of a cube is 96cm$^2$. Find its volume. |
| After an increase of 25%, the shirt now cost £75, what was its original price? | 20. Simplify;<br><br>$$3a^7 \times 5a^4$$ |

Total:

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