

# Homework 10 Core

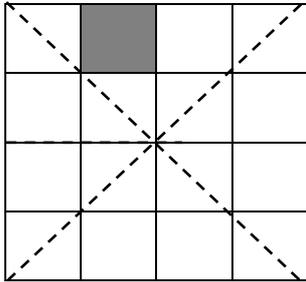
---

Where a question asks you to show working a correct answer will only be awarded a mark for a correct WRITTEN method. The method you use is more important than the actual answer in helping you to progress in maths.

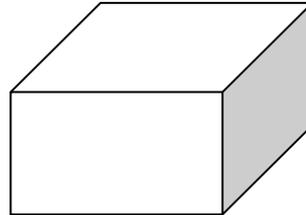
Due in:

<p>1. A rectangle has an area of <math>10\text{cm}^2</math>. A triangle has the same area, what could the base and height of the triangle be?</p>	<p>3. Add the first 10 odd numbers together(show working)</p>
<p>2. Using the digits 0, 1, 4, 5 and 6 to complete the calculation</p> $\begin{array}{ c c } \hline \square & \square \\ \hline \end{array} = \begin{array}{ c c } \hline \square & \square \\ \hline \end{array} \times \begin{array}{ c } \hline \square \\ \hline \end{array}$	<p>4. Work out <math>660 \div 5</math> Show working</p>

5. Give this diagram reflective symmetry about the dotted lines.



8. How many cm cubes are needed to make a cuboid measuring 5cm by 2cm by 3cm?



6. Complete the pictogram to show 18 boys and 14 girls  
 key ☺ = 3 people

Boys	
Girls	

9. Between each pair of numbers put either > or <

8	5		3	-6
0.9	0.1		-4	-9
0.04	0.4		0	-8

7. Estimate  $28.9 \div 2.99$  (show how you did it)

10. Round 6.45 to the one decimal place.

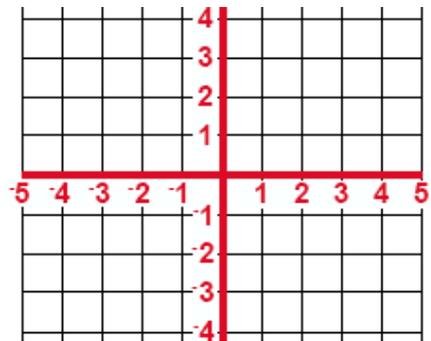
<p>11. Write down all the factors of 36 (there are 9)</p>	<p>14. I think of a number, add 1 then times by 6 and finally subtract 6. My answer is 54. What number was I thinking of?</p>
<p>12. Simplify</p> $6d+3e-5d-4e$	<p>15. At night the temperature was <math>-21^{\circ}\text{C}</math>. During the day it was <math>0^{\circ}\text{C}</math>. What is the difference between these temperatures?</p>
<p>13. If <math>a=8</math> and <math>b=5</math>, what is</p> $2ab$	<p>16. What is the mode of the following numbers:</p> $4, 6, 4, 7, 3, 5, 4, 8, 3$

17. Angles in a triangle always add up to what?

19. If you choose a card at random from a pack of cards, what is the probability you choose a diamond?

18. Convert  $\frac{1}{10}$  into a percentage.

20. On the grid, plot three points with an x coordinate of -2  
i.e. (-2, ?), (-2, ?), (-2, ?). Join them up and label the line x=...



Total:

