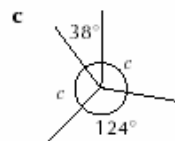
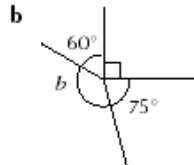
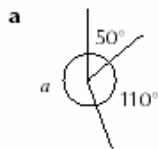


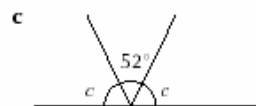
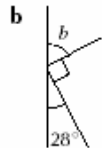
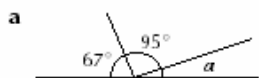


# Home Learning 7.2    Date Due:.....

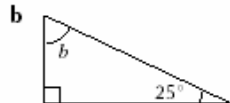
1 Calculate the size of each unknown angle.



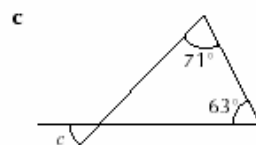
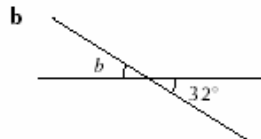
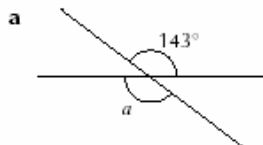
2 Calculate the size of each unknown angle.



3 Calculate the size of each unknown angle.



4 Calculate the size of each unknown angle.



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1 Round off these numbers to i the nearest 10 ii the nearest 100 iii the nearest 1000.

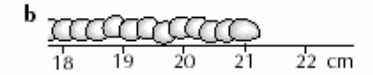
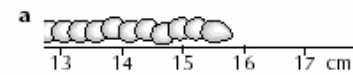
- a 2786      b 321      c 4511      d 921      e 1835

2 Round off these numbers to i the nearest whole number ii one decimal place.

- a 3.36      b 1.94      c 0.921      d 2.45      e 2.708

3 i What are the lengths of these worms to the nearest cm?

ii Estimate their length to the nearest mm.



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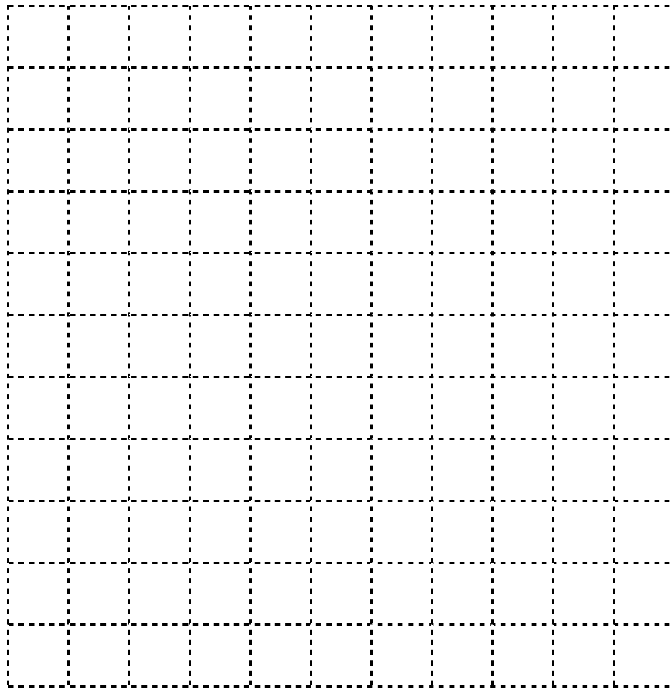












Mark: .....

Home Learning 10.5 Date Due:.....

- 1 a Is the point (5, 9) on the graph of  $y = x + 4$ ?
- b Is the point (4, 2) on the graph of  $y = 2x$ ?
- c Is the point (3, 5) on the graph of  $y = 8 - x$ ?
- 2 Which of the following lines does the point (1, 4) lie on?  
 $y = x + 3$        $y = x + 4$        $y = 3x$        $y = 4x$        $y = 4$
- 3 Write down **two** functions whose graphs will pass through the point (2, 10).

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Home Learning 10.1 Date Due:.....

$$\sqrt{900} = \sqrt{9} \times \sqrt{100} = 30$$

- a Use a calculator to check that the above statement is true.
- b Use a similar routine to find i  $\sqrt{400}$  ii  $\sqrt{2500}$  iii  $\sqrt{1600}$  iv  $\sqrt{4900}$
- c Use a calculator to check that each one is correct.
- d Write down the number representing  $\sqrt{1\,000\,000}$
- e Without a calculator, find each of these.
- i  $\sqrt{9\,000\,000}$  ii  $\sqrt{4\,000\,000}$  iii  $\sqrt{81\,000\,000}$  iv  $\sqrt{64\,000\,000}$
- f Explain why there is no quick way to find the square roots of thousands. For example:

$$\sqrt{4000} \text{ or } \sqrt{9000}$$

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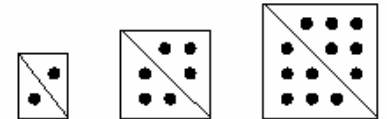
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Home Learning 10.2 Date Due:.....

Look at this arrangement of triangle numbers. Each diagram is made up of a triangle number and a copy of it put on top to make a rectangle.



The size of each rectangle is given by

$$\text{Dots in a row} \times \text{Number of rows}$$

- a Draw the next three shapes in the sequence.
- b Write the size of the shapes you have just drawn.
- c What would be the size of the 50th shape?
- d What is the size of the  $n$ th shape?
- e Try to use this to write down the  $n$ th triangle number.

