



Name: _____

August 11th	5-a-day	Numeracy
<p>Draw a right angle</p> 	<p>Draw and label a reflex angle</p> 	
<p>Simplify $a + a + a$</p> <p style="text-align: center;">$3a$</p>	<p>Simplify $a \times a$</p> <p style="text-align: center;">a^2</p>	
<p>Two angles in a triangle are 50 degrees and 36 degrees.</p> <p>Calculate the third</p>	<p>$50 + 36 = 86$ $180 - 86 = 94^\circ$</p>	
<p>20% of 30 = <u>6</u></p> <p>50% of <u>60</u> = 30</p>		
<p>Calculate the mean of:</p> <p>2 4 5 3 1 4 2 1 1 4</p>	<p>$2+4+5+3+1+4+2+1+1+4 = 27$ $27 \div 10 = 2.7$</p>	

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5-a-day

Foundation

The ratio of red beads to white beads on a necklace is 2:1.

What fraction of the beads are white?

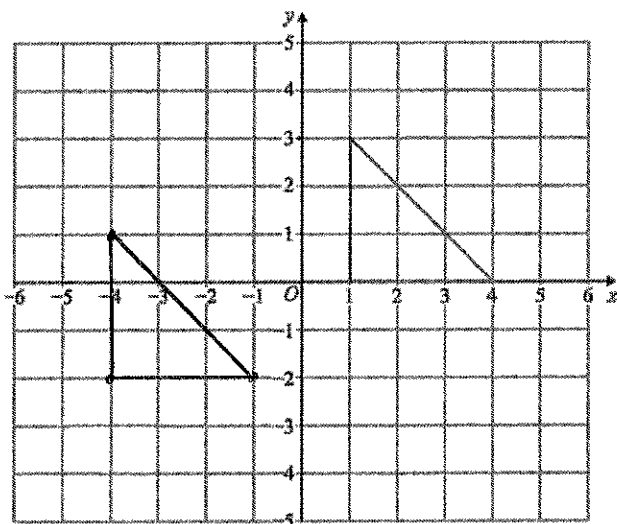
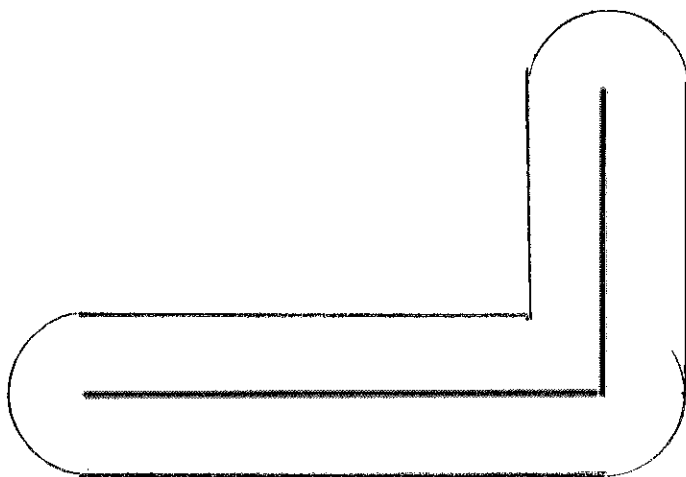
$$\frac{1}{3}$$

There are 42 red beads, how many beads are there in total?

42 red
21 white

63 beads

Draw the locus of all points 1cm from the L shape below.



Translate the red triangle, by the translation vector

$\begin{pmatrix} -5 \\ -2 \end{pmatrix}$ 5 left
2 down

Name: _____

August 11	5-a-day	Higher
<p>Solve</p> $3(x - 2) + 2(x + 8) = x + 6$ $3x - 6 + 2x + 16 = x + 6$ $5x + 10 = x + 6$ $4x = -4$	$x = -1$	
<p>The size of each exterior angle of a regular polygon is 8 degrees.</p> <p>How many sides does the polygon have?</p> $360 \div 8 = 45 \text{ sides}$	<p>What is the sum of the interior angles of the polygon?</p> $45 \times 172 = 7740^\circ$	
<p>Simplify</p> $\frac{w}{2} - \frac{w+1}{7}$	$\frac{7w}{14} - \frac{2w+2}{14}$ $= \frac{5w-2}{14}$	
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">A</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">A</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">A</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">C</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">C</div> </div> <p>A counter is selected at random, the letter recorded and the counter put back into the bag. A second is then selected.</p>	<p>What is the probability that both letters are different?</p> $P(AC) = \frac{3}{5} \times \frac{2}{5} = \frac{6}{25}$ $P(CA) = \frac{2}{5} \times \frac{3}{5} = \frac{6}{25}$ $\frac{6}{25} + \frac{6}{25} = \frac{12}{25}$	
<p>Write 0.82424242424... as a fraction.</p> $x = 0.8242424\dots$ $10x = 8.2424\dots$ $1000x = 824.2424\dots$	$\begin{array}{r} 1000x = 824.2424\dots \\ 10x = 8.2424\dots \\ \hline 990x = 816 \end{array}$ $x = \frac{816}{990} = \frac{136}{165}$	