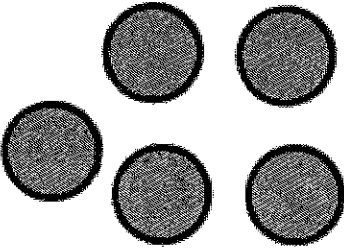


Name: \_\_\_\_\_

December 23rd	5-a-day	Numeracy
<p>398 - 129</p> <p style="text-align: center;">269</p>	<p>48 x 3</p> <p style="text-align: center;">144</p>	
<p style="text-align: center;"><b>Menu</b></p> <p>Burger 90p Egg 70p Chips 80p Mash 65p Drink 55p</p>	<p>Aaron buys a portion of chips and two drinks. How much does that cost?</p> <p style="text-align: center;">£1.90</p>	
	<p>What is the probability of picking a red counter at random?</p> <p style="text-align: center;"><math>\frac{3}{5}</math></p>	
<p>Solve <math>w + 3 = 20</math></p> <p style="text-align: center;"><math>w = 17</math></p>	<p>Solve <math>7y = 35</math></p> <p style="text-align: center;"><math>y = 5</math></p>	
<p>Mr Cooper wants to hire a carpet cleaner.</p> <p>It costs £15 per day.</p> <p>Mr Cooper's final bill is £90.</p>	<p>How many days did he hire the carpet cleaner for?</p> <p style="text-align: center;"><math>90 \div 15 = 6</math> 6 days</p>	

Name: \_\_\_\_\_

December 23

5-a-day

Foundation

Find the area of a circle with radius 8cm.

$$\pi \times 8^2$$

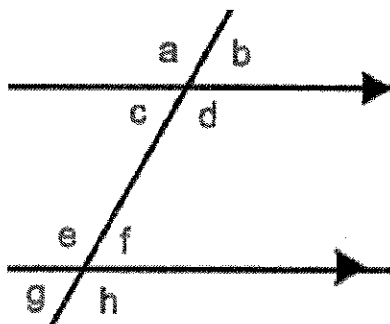
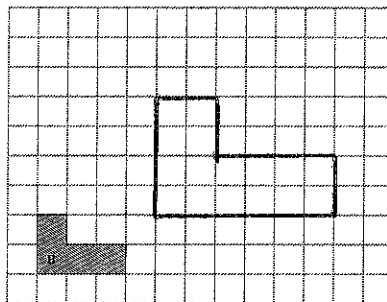
$$\pi \times 64$$

$$= 64\pi \text{ cm}^2$$

$$\text{or}$$

$$= 201.06 \text{ cm}^2$$

Enlarge shape B by scale factor 2



Which angle is vertically opposite to h?

e

Which angle is alternate to e?

d

Time (t minutes)	Frequency
$0 < t \leq 6$	15
$6 < t \leq 12$	25
$12 < t \leq 18$	20
$18 < t \leq 24$	12
$24 < t \leq 30$	8

midpoint

3

9

15

21

27

f<sub>x</sub>

45

225

300

252

216

1038

$$1038 \div 80$$

$$= 12.975$$

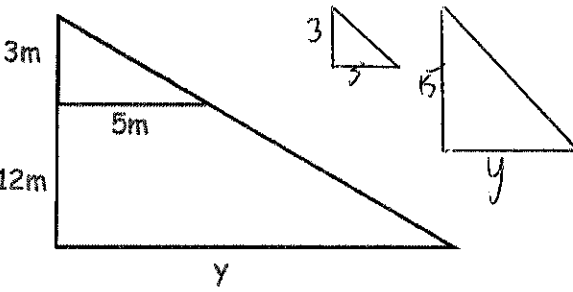
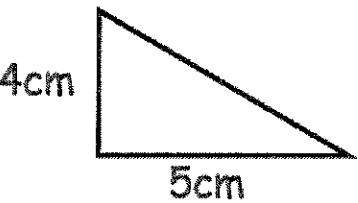
Write down the modal interval

$$6 < t \leq 12$$

Calculate an estimate for the mean

$$12.975$$

Name: \_\_\_\_\_

December 23	5-a-day	Higher
<p>Three angles in a pentagon are 110 degrees each. <math>3 \times 110^\circ</math></p> <p>With the two other angles, one is 10 degrees larger than the other.</p> <p><math>x</math>      <math>x+10</math></p>	<p>Find the size of each angle.</p> <p><math>540 - 330 = 210^\circ</math></p> <p><math>2x + 10 = 210^\circ</math></p> <p><math>x = 100^\circ</math></p> <p><math>x + 10 = 110^\circ</math></p>	
<p><b>Factorise</b></p> <p><math>x^2 - 10x + 25</math></p> <p><math>(x - 5)(x - 5)</math></p>	<p><b>Factorise</b></p> <p><math>2x^2 + 3x - 5</math></p> <p><math>(2x + 5)(x - 1)</math></p>	
	<p>Find y</p> <p><math>15 \div 3 = 5</math></p> <p><math>5 \times 5 = 25m</math></p>	
<p>Find the length of the hypotenuse. Give your answer as a surd.</p> 	<p><math>a^2 + b^2 = c^2</math></p> <p><math>4^2 + 5^2 = c^2</math></p> <p><math>16 + 25 = c^2</math></p> <p><math>41 = c^2</math></p> <p><math>\sqrt{41}</math></p>	
<p>Simplify</p> <p><math>\frac{2x^2 - 3x - 20}{x^2 - 16}</math></p>	<p><math>\frac{(2x + 5)(x - 4)}{(x + 4)(x - 4)}</math></p> <p><math>\frac{2x + 5}{x + 4}</math></p>	