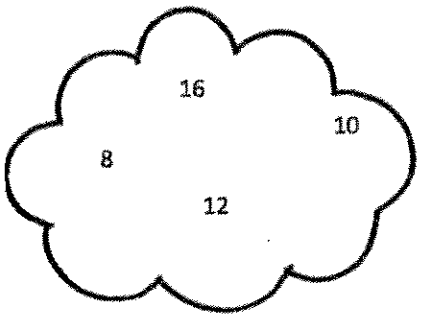
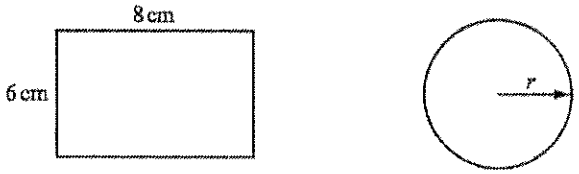
Name: _____

August 2nd	5-a-day	Numeracy
Write 600,000 in words Six hundred thousand	Write four thousand and twelve in figures 4012	
Andy earns £300 per week. He is awarded a pay rise of 10% What is his new wage?	10% = £30 £330	
	George picks two different numbers shown. He divides one number by the other.	
What is the largest number he can get? $\frac{16}{8} = 2$	What is the smallest number he can get? $\frac{8}{16} = 0.5$	
$\frac{7}{12}$ of 864	864 ÷ 12 = 72 72 × 7 = 504	

Name: _____

August 2	5-a-day	Foundation
David travels 90 miles in 2 hours 30 minutes. What is his average speed? Speed = distance / time	$S = \frac{90}{2.5} = 36$ mph	
Simplify $a^{-3} \times a^{8}$.	a^5	
Make x the subject of this formula g = 2x + y $g - y = 2x$ $\frac{g-y}{2} = x$	$x = \frac{g-y}{2}$	
The diameter of a circle is 6cm Using pi as 3.14, work out the circumference.	$C = \pi \times d$ $C = \pi \times 6$ $C = 3.14 \times 6 = 18.84$cm	
 The perimeter of the rectangle is the same length as the circumference of the circle	Perimeter = 28cm $28 \div \pi = 8.912676813$cm $8.9126.. \div 2 = 4.456..$cm	

Name: _____

August 2	5-a-day	Higher

Factorise

$x^2 + 2x - 8$

$(x + 4)(x - 2)$

Factorise

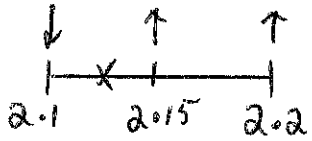
$x^2 - 2x - 3$

$(x - 3)(x + 1)$

Use trial and improvement to solve $5^x = 35$.

2.1

Give your answer to 1 decimal place.



x	5^x	Comment
2	25	too low
3	125	too high
2.1	29.37	too low
2.2	34.5	too high
2.15	31.83	too high

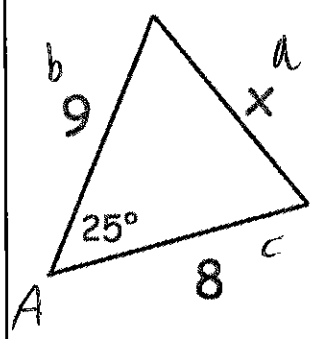
Evaluate

9^0 1

Rationalise the denominator of

$\frac{15}{\sqrt{5}} \times \frac{\sqrt{5}}{\sqrt{5}} = \frac{15\sqrt{5}}{5}$

$= 3\sqrt{5}$



Find the length of the side labelled x.

$a^2 = b^2 + c^2 - 2bc\cos A$

$x^2 = 9^2 + 8^2 - 2 \times 8 \times 9 \times \cos 25$

$x^2 = 14.49167...$

$x = 3.8068$ cm