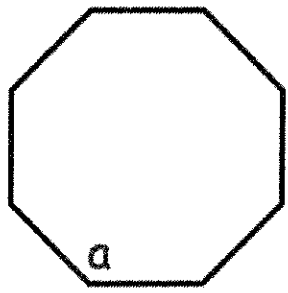
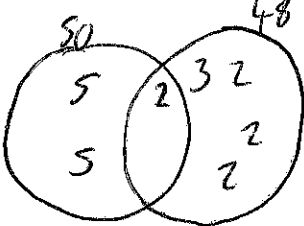


Name: \_\_\_\_\_

December 19th		5-a-day	Numeracy
500 - 132		9 x 3 x 2	
368		54	
8	9	10	From the list, write down a square number.
15	20		
From the list, write down a factor of 18.			9
9			
Decimal	Fraction	Percentage	
0.5	$\frac{1}{2}$	50%	
0.25	$\frac{1}{4}$	25%	
0.7	$\frac{7}{10}$	70%	
0.07	$\frac{7}{100}$	7%	
Complete the table.			
			Write a suitable fraction in each box.
<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <math>\frac{1}{10}</math> </div> <div style="border: 1px solid black; padding: 5px; text-align: center;"> <math>\frac{1}{3}</math> </div> </div>			

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

December 19	5-a-day	Foundation
<p>Shown is a regular octagon.</p> <p>Find a</p> $1080 \div 8 = 135^{\circ}$		
<p>Using your calculator</p> $\frac{7.2}{9.1 \times 2.8}$	<p>a) Write down your full calculator display.</p> $0.2825745683$ <p>b) Write your answer to 1 decimal place.</p> $0.3$	
$\frac{1}{5} \div 2\frac{3}{4}$	$\frac{1}{5} \div \frac{11}{4} \quad \frac{1}{5} \times \frac{4}{11}$ $\frac{4}{55}$	
<p>Write 50 as a product of primes. Give your answer in index form.</p> $2 \times 5^2$	<p>Write 48 as a product of primes. Give your answer in index form.</p> $2^4 \times 3$	
<p>Find the HCF of 50 and 48.</p> <p>2</p> 	<p>Find the LCM of 50 and 48.</p> $1200$	

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

December 19

5-a-day

Higher

A regular polygon has interior angle  $150^\circ$ .  
 $180 - 150 = 30^\circ$  (exterior angle)

How many sides does it have?

$$360 \div 30 = 12 \text{ sides}$$

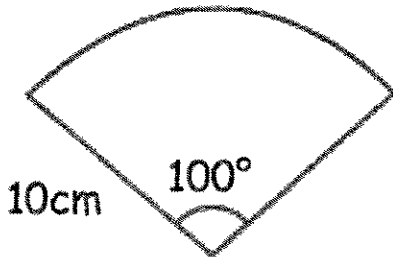
Age	Frequency	$fx$
$10 < t \leq 20$	15	8
$20 < t \leq 30$	25	38
$30 < t \leq 40$	35	28
$40 < t \leq 50$	45	4
$50 < t \leq 60$	55	2
	<u>80</u>	<u>110</u>

Calculate the estimated mean.

$$2340 \div 80 =$$

$$29.25$$

Calculate the perimeter of this sector.



$$\frac{100}{360} \times \pi \times 20 = 17.4532\dots$$

$$17.453 + 10 + 10$$

$$= 37.453 \text{ cm}$$

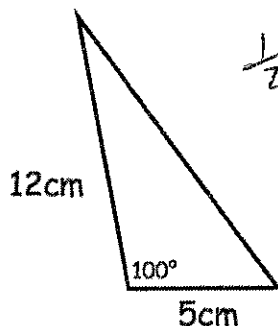
Expand and simplify

$$(5 + \sqrt{3})^2$$

$$(5 + \sqrt{3})(5 + \sqrt{3})$$

$$25 + 5\sqrt{3} + 5\sqrt{3} + 3$$

$$28 + 10\sqrt{3}$$



$$\frac{1}{2} ab \sin C$$

Calculate the area of the triangle.

$$\frac{1}{2} \times 5 \times 12 \times \sin 100$$

$$29.544 \text{ cm}^2$$