RoK	(Retention of Knowledge)
What is t	the value of the digit 2 in

each of these numbers.

325

d) 0.25

4502

- 0.0320
- 32568

1.324

Round the numbers to 1 d.p. and 2 **d.p.** (d.p. means decimal place)

<b>- P</b> ( <b>-</b> P	1 d.p.	2 d.p.
1.325		
32.574		

## Significant Figures

Significant means to have meaning Memory

In the number 2435, the 2 is the most significant digit because it tells you the number is two thousand and something. It follows that 4 is the 2<sup>nd</sup> most significant, and so on.

In the number 0.006835, the 6 is the most significant digit because it tells you the number is 6 thousandths and something. It follows that 8 is the 2<sup>nd</sup> most significant, and so on.

	1 s.f.	2 s.f.	3 s.f.
2435	2000	2400	2440
0.006835	0.007	0.0068	0.00684

## 1) Find the average of the following lengths:

23.8 cm, 23.7 cm, 23.8 cm, 22.9 cm, 23.1 cm, 23.3 cm, 23.0 cm

(Give your answer accurate to 3 significant figures)

$$Density = \frac{Mass}{Volume}$$



- 2) A solid block of chocolate has the dimensions  $2.7cm \times 1.6cm \times 6.3cm$ .
- a) Calculate the volume of the block of chocolate to 2 s.f..
- b) Estimate the density of the block of chocolate to 2 s.f., when it's mass is 72.906g. (Units of measures  $g/cm^3$ )

## Literacy

Write the following numbers in words.

3084

72,108

Round the following numbers to 1, 2 and 3 significant figures a) 145

	1 s.f.	2 s.f.	3 s.f.	
4562				
3472				
26541				
30218				
42912				
234.6				

Round the following numbers to 1, 2 and 3 significant figures

	1 s.f.	2 s.f.	3 s.f.
452.8			
52.31			
24.085			
3.0184			
0.002376			
0.01039			

Work out the following **Skill** using a calculator.

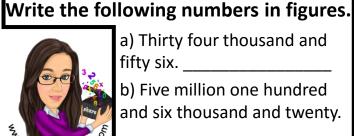
- a) Show the full calculator display
- Give the answer to 2 s.f.

i. 
$$\sqrt{29}$$

$$ii. \frac{2.4+3.9}{4.8}$$

*iii.* 
$$\frac{5.9-0.2^3}{1.5}$$

*iv.* 
$$\sqrt{\frac{4.44\times0.6^2}{24}}$$



- a) Thirty four thousand and fifty six.
- b) Five million one hundred and six thousand and twenty.