

RoK (Retention of Knowledge)

What is the value of the digit 2 in each of these numbers.

- a) 325
- b) 4502
- c) 32568
- d) 0.25
- e) 0.0320
- f) 1.324

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

	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 2nd 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 2nd 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

Stretch

- 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)

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



- 2) A solid block of chocolate has the dimensions 2.7cm × 1.6cm × 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/cm³)

Literacy

Write the following numbers in words.

- a) 145 _____
- b) 3084 _____
- c) 72,108 _____

Write the following numbers in figures.

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



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

	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 **Skill 2**

	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 using a calculator **Skill 3**

- a) Show the full calculator display
- b) 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. $\sqrt{\frac{4.44 \times 0.6^2}{24}}$