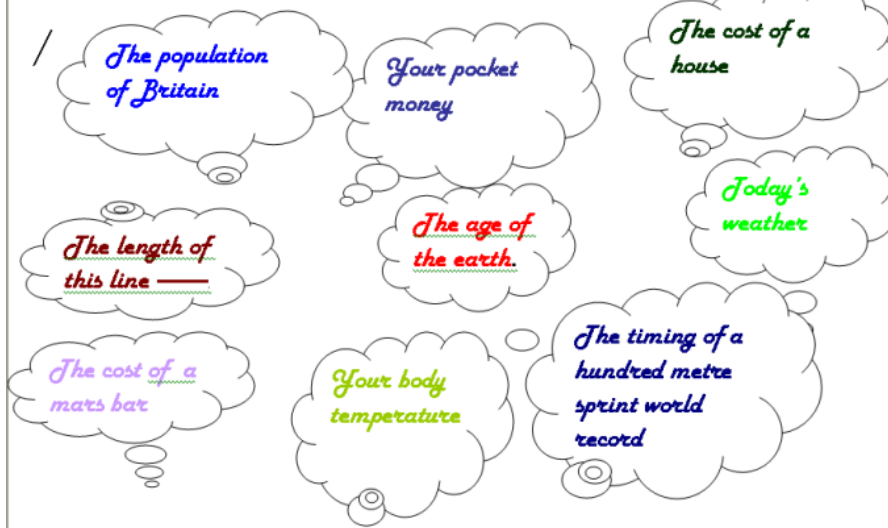


Estimating

To what degree of accuracy would you round these numbers?



Estimate the answers to:

$$4.9 \times 5.1$$

$$63.2 \div 6.9$$

$$203.78 + 301.8 + 189.0056$$

$$\begin{aligned} &4.6 \times 3.1 \\ &= 5 \times 3 \\ &= \underline{\underline{15}} \end{aligned}$$

Rounding



Round these numbers to 1, 2, 3 dp

	To	nearest	1dp	2dp
		integer		
a) 3.4502				
b) 34.8901				
c) 8.9992				
d) 3.4951				

Rounding to a fixed number of decimal places.

155 65 2001090
45 154.5555
1999

To the nearest hundred:

78.4
0.5 0.45
5.4 4.998
99.9 2.49

to the nearest whole number:

45.32 1.45
235.915 3.95
200.99 2.06

To the nearest one decimal place.

1 1.5 2

To round to one dp
look at the number in
the second dp.
no < 5, leave it;
no ≥ 5, round up.

\sqrt{x}	calculator display	to 2 dp	to 1 dp	nearest integer	
1	1	1.00	1.0	1	
2	1.414..	1.41	1.4	1	
3					
4					
5					
6					
7					
8					
9					
10					

up to 20

How many square roots, when rounded,
equal 1?
2?
3?
Can you spot a pattern?

Estimating

In maths: "Estimate" means round the numbers.
It does not mean guess!

Estimate the answer to :

$$\underline{23.4 \times 46.9}$$

16.1

$$\underline{13.2 \times 18.8}$$

20.1

Attachments

rounding.ppt

15RandNos.xls