



## ROUNDING TO 2 SIGNIFICANT FIGURES SHEET 1

Follow these 4 simple steps to round a number to 2 significant figures (2sf):

- 1) Find the most significant (non-zero) digit and also the next digit.
- 2) Look at the following digit.
- 3) If this digit is 5 or more, the 2<sup>nd</sup> most significant digit is rounded up. If this digit is less than 5, it stays the same.
- 4) Remove all the other digits from the number and replace them with zeros.

**You should end up with a number that has only two non-zero digits!**

Examples - (the 2 most significant digits in each number are underlined)

537 is rounded **up** to 540 because the following digit is 7.

7729 is rounded **down** to 7700 because the following digit is 2.

10.473 is rounded **down** to 10 because the following digit is 4.

0.00375 is rounded **up** to 0.038 because the following digit is 5.

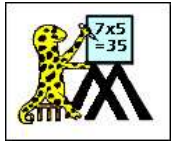
Match each number to its value rounded to two significant figures

122	<table border="1" style="border-collapse: collapse; width: 100%;"> <tbody> <tr><td style="text-align: center;">11</td></tr> <tr><td style="text-align: center;">12</td></tr> <tr><td style="text-align: center;">13</td></tr> <tr><td style="text-align: center;">110</td></tr> <tr><td style="text-align: center;">120</td></tr> <tr><td style="text-align: center;">130</td></tr> <tr><td style="text-align: center;">1100</td></tr> <tr><td style="text-align: center;">1200</td></tr> <tr><td style="text-align: center;">1300</td></tr> </tbody> </table>	11	12	13	110	120	130	1100	1200	1300	10.72
11											
12											
13											
110											
120											
130											
1100											
1200											
1300											
12.34		108									
1163		127.3									
12.83		1248									
1314		1083									



Name

Date



# ROUNDING TO 2 SIGNIFICANT FIGURES SHEET 1 ANSWERS

Match each number to its value rounded to two significant figures

122	11	10.72
12.34	12	108
1163	13	127.3
12.83	110	1248
1314	120	1083
	130	
	1100	
	1200	
	1300	

Red lines indicate the following matches:

- 12.34 to 12
- 1163 to 13
- 12.83 to 110
- 1314 to 1200
- 10.72 to 11
- 108 to 110
- 127.3 to 130
- 1248 to 1100
- 1083 to 1200

Black lines indicate the following matches:

- 122 to 120

