

Round the following number to the nearest tenth: 271.981.

The answer is 272.0 here if we are rounding to the nearest tenth, we need to examine the hundredths column. If the digit in the hundredths column is 5 or greater, then the tenths column rounds up to the next tenth. If it is less than 5, then the tenths column rounds down. In this case, the 9 will round up to 10 which will then be carried across to the units column.

Round the following numbers to the nearest tenth:

- | | | | | | |
|----|---------|-------|----|---------|-------|
| 1 | 7.852 | _____ | 2 | 6.521 | _____ |
| 3 | 9.5013 | _____ | 4 | 18.5 | _____ |
| 5 | 37.15 | _____ | 6 | 38.977 | _____ |
| 7 | 3075.92 | _____ | 8 | 99.093 | _____ |
| 9 | 43.228 | _____ | 10 | 99.989 | _____ |
| 11 | 309.89 | _____ | 12 | 299.22 | _____ |
| 13 | 9.8617 | _____ | 14 | 603.841 | _____ |

Write 2.7918 correct to two significant figures.

The answer is either going to be 2.7 or 2.8. We look at the third digit along, in this case: 9, to determine whether the second digit stays as it is or moves up. As 9 is greater than or equal to 5, the second digit increases and so the correct answer is 2.8.

Write each of the following numbers correct to 3 significant figures:

- | | | | | | |
|----|---------|-------|----|---------|-------|
| 15 | 2,738 | _____ | 16 | 492.90 | _____ |
| 17 | 8.8965 | _____ | 18 | 72.871 | _____ |
| 19 | 3715 | _____ | 20 | 38.977 | _____ |
| 21 | 307,592 | _____ | 22 | 99.093 | _____ |
| 23 | 43,152 | _____ | 24 | 99.989 | _____ |
| 25 | 309.829 | _____ | 26 | 299.822 | _____ |

Number	Rounded to nearest 10	Correct to 2 decimal places	Correct to 2 significant figures
728.928			
8271.291			
8271			
92917.992			
7183.7851			
6526.8821			
38291.938			
0.078563			
1.563			
25008.563			
56.889			
34.8566			

39 Write down a six digit number that has 9 as its thousands digit. You can only use the 9 digit once.

40 Write down a five digit number that has 7 as its hundreds digit. You can only use the 7 digit once.

41 Write down an eight digit number that has 3 as its millions digit. You can only use the 3 digit once.

42 Write down an eight digit number that has 7 as its hundred-thousand digit. You can only use the 7 digit once.

43 Write down a six digit number that has 9 as its tens digit. You can only use the 9 digit once.

44 Write down a six digit number that has 1 as its hundreds digit. You can only use the 1 digit once.

45 Write down a four digit number that has 7 as its thousandths digit. You can only use the 7 digit once.

46 Write down a six digit number that has 9 as its units digit. You can only use the 9 digit once.

47 Write down a eight digit number that has 5 as its ten-thousand digit. You can only use the 5 digit once.