

Rounding Decimals

Rounding is a process to estimate a particular number in a context. To round a number, look at the next digit in the right place, if the digit is less than 5, round down and if the digit is 5 or more than 5, round up.

Rounding to decimal places

Rounding to decimal places is exactly like rounding whole numbers - you just have more numbers (and therefore greater accuracy).

3.248

3 is the units digit.

2 is worth 2 **tenths**, and is the **first** decimal place.

4 is worth 4 **hundredths**, and is the **second** decimal place.

8 is worth 8 **thousandths**, and is the **third** decimal place.

You will sometimes see "decimal place" shortened to "d.p."

3.248 rounded to 1 d.p.

3.248

3.248 → 3.2

1st dp
3.2

Look at the next digit.
4 stays down - stay at 3.2.

3.248 rounded to 2 d.p.

3.248

3.248 → 3.25

2nd dp
3.24

Look at the next digit.
8 rounds up - go to 3.25

Watch the video.

Use the chart with decimals and video above to help you.

Round to the nearest tenth.

1. 3.52 _____
2. 6.20 _____
3. 18.75 _____
4. 459.83 _____

Round to the nearest hundredth.

5. 8.065 _____
6. 6.433 _____
7. 72.011 _____
8. 520.068 _____

Round to the nearest thousandth.

9. 0.001429 _____
10. 0.00973 _____
11. 0.24654 _____
12. 39.0983 _____
13. 74.9216 _____
14. 58.9332 _____

Round to the nearest ten thousandth.

15. 9.130475 _____
16. 14.261132 _____
17. 58.1967349 _____
18. 92.325648 _____
19. 0.012456 _____
20. 58.04328 _____

Round to the nearest whole number.

21. 3.52 _____
22. 6.20 _____
23. 18.75 _____
24. 326.14 _____
25. 67.67 _____
26. 23.09 _____
27. 19.325 _____
28. 234.05 _____
29. 328.78 _____
30. 3,987.597 _____