

Learning Intentions

1. How to round numbers, particularly those ending in 5.

Notes

When rounding a number, we must examine the first digit that will be dropped.

1. If the digit is less than 5, the number should be rounded down.

- a. Round 26.8347 to 4 significant figures.

$\overset{-}{\uparrow}$ 26.83

2. If the digit is greater than 5, the number should be rounded up.

- a. Round 0.0357610 to 3 significant figures.

$\overset{-}{\uparrow}$ 0.0358

3. If the digit is 5, the number should be rounded so that the preceding digit is even.

- a. Round 8,762.0551 to 6 significant figures.

$\overset{-}{\uparrow}$ 8,762.06

- b. Round 5.29451 to 4 significant figures.

$\overset{-}{\uparrow}$ 5.294

Questions

1. Round the following numbers to 3 significant figures.

- a. 2.87240

$\overset{-}{\uparrow}$ 2.87

- b. 2,187,500

$\overset{-}{\uparrow}$ 2,190,000

- c. 0.089150

$\overset{-}{\uparrow}$ 0.0892

- d. 5.0859

$\overset{-}{\uparrow}$ 5.08

- e. 2,195,000,000

$\overset{-}{\uparrow}$ 2,200,000,000 OR 2.20×10^9

- f. 7.9055

$\overset{-}{\uparrow}$ 7.90