



Practice exercise: Decimals

Subtopic: Comparing, Ordering and Rounding Decimals

A. Comparing Decimals

Use the symbols ($=$, $<$ or $>$), to compare the decimals.

- **Eg: (0.19, 0.119)**
 - **Work from left to right, compare both decimals according to their place value. So, $0.19 > 0.119$**

1. (0.51, 5.1)
2. (1.5, 0.150)
3. (0.009, 0.0009)
4. (1.003, 1.03)
5. (0.0700, 0.07)
6. (0.110, 1.10)
7. (0.0999, 0.09)
8. (0.78, 0.7080)
9. (0.53, 0.5300)
10. (1.050, 0.1050)

B. Ordering Decimals

Arrange in **descending** order

- **Eg: (0.001, 0.01, 0.1, 1.000)**

- $1.000 > 0.1 > 0.01 > 0.001$

1. (0.0050, 0.5000, 0.0500, 0.0005)

2. (1.090, 1.009, 1.900, 1.999)

3. (3.002, 3.2001, 3.2121, 3.020)

4. (2.125, 2.215, 2.152, 2.251)

5. (0.0235, 0.2053, 0.0532, 0.3205)

Arrange in **ascending** order

6. (1.200, 1.0002, 1.020, 1.002)

7. (0.0150, 0.0155, 0.01555, 0.015555)

8. (1.0120, 1.1122, 1.0211, 1.0221)

9. (3.2141, 3.1214, 3.1124, 3.2411)

10. (0.0123, 0.1032, 0.3201, 0.2130)

C. Rounding Decimals

Round

1. to tenths: (i) 0.7212, (ii) 0.2416, (iii) 1.277, (iv) 3.093
2. to hundredths: (i) 0.0253, (ii) 0.1234, (iii) 2.345, (iv) 3.127
3. to thousandths: (i) 3.2005, (ii) 5.4016, (iii) 3.0158, (iv) 4.2353
4. to ten-thousandths: (i) 1.65432, (ii) 2.76543, (iii) 3.87654

Answer Key

Practice exercise: Decimals

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A.

1. $0.51 < 5.1$
2. $1.5 > 0.150$
3. $0.009 > 0.0009$
4. $1.003 < 1.03$
5. $0.0700 = 0.07$
6. $0.110 < 1.10$
7. $0.0999 > 0.09$
8. $0.78 > 0.7080$
9. $0.53 = 0.5300$
10. $1.050 > 0.1050$

B.

1. $0.5000 > 0.0500 > 0.0050 > 0.0005$
2. $1.999 > 1.900 > 1.090 > 1.009$
3. $3.2121 > 3.2001 > 3.020 > 3.002$
4. $2.251 > 2.215 > 2.152 > 2.125$
5. $0.3205 > 0.2053 > 0.0532 > 0.0235$
6. $1.0002 < 1.002 < 1.020 < 1.200$
7. $0.0150 < 0.0155 < 0.01555 < 0.015555$
8. $1.0120 < 1.0211 < 1.0221 < 1.1122$
9. $3.1124 < 3.1214 < 3.2141 < 3.2411$
10. $0.0123 < 0.1032 < 0.2130 < 0.3201$

C.

1. (i) 0.7 (ii) 0.2 (iii) 1.3 (iv) 3.1
2. (i) 0.01 (ii) 0.12 (iii) 2.35 (iv) 3.13
3. (i) 3.201 (ii) 5.402 (iii) 3.016 (iv) 4.24
4. (i) 1.6543 (ii) 2.7654 (iii) 3.8765