

Boost Free Lessons - Year 5 Maths

Lesson 12: Comparing and Ordering Decimals

Name: _____ Grade: _____ Date: _____

Worked Example 1

Which is larger, 0.7 or 0.65?

1. Do not judge by how many digits there are. 0.65 looks longer but is not larger.
2. Give both numbers the same number of decimal places by adding a zero: 0.70 and 0.65.
3. Now compare place by place. Both have 0 ones.
4. In the tenths column, 7 is greater than 6, so 0.70 is larger.

0.7 is larger than 0.65

Worked Example 2

Order these from smallest to largest: 2.3, 2.09, 2.35, 2.1

1. Write them all with the same number of decimal places: 2.30, 2.09, 2.35, 2.10.
2. Compare the tenths first: 3, 0, 3, 1.
3. 2.09 has the smallest tenths digit, then 2.10.
4. For the two with 3 tenths, compare hundredths: 0 then 5, so 2.30 comes before 2.35.

2.09, 2.1, 2.3, 2.35

Remember: Line up the **decimal points** and add zeros so every number has the same number of places. Then compare column by column, starting from the left.



Question 1: Answer the following.

1. Which is larger: 0.4 or 0.35?

2. Which is larger: 1.8 or 1.75?

3. Which is larger: 0.09 or 0.1?

4. Which is larger: 3.06 or 3.6?

5. Which is smaller: 5.2 or 5.19?

6. Which is smaller: 0.505 or 0.55?

7. Which is larger: 12.4 or 12.40?

8. Which is smaller: 7.008 or 7.08?



Question 2: Answer the following.

1. Order from smallest to largest: 0.6, 0.06, 0.66, 0.16

2. Order from smallest to largest: 3.2, 3.02, 3.22, 3.12

3. Order from largest to smallest: 1.5, 1.55, 1.05, 1.505

4. Write a decimal between 0.4 and 0.5.

5. Write a decimal between 2.31 and 2.32.

6. Round 4.68 to one decimal place.



Question 3: Answer the following questions.

1. Three runners finish in 12.4, 12.35 and 12.5 seconds. Who won?
2. A shop sells drinks for \$2.40, \$2.04 and \$2.44. List them from cheapest to dearest.
3. Two boxes weigh 3.5 kg and 3.45 kg. Which is heavier?
4. A jump measured 4.07 m and another 4.7 m. Which was longer, and by how much?
5. Explain why 0.5 is larger than 0.45 even though 45 is larger than 5.





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Answers: Comparing and Ordering Decimals**Question 1**

1. 0.4
2. 1.8
3. 0.1
4. 3.6
5. 5.19
6. 0.505
7. They are equal
8. 7.008

Question 2

1. 0.06, 0.16, 0.6, 0.66
2. 3.02, 3.12, 3.2, 3.22
3. 1.55, 1.505, 1.5, 1.05
4. Model: 0.45
5. Model: 2.315
6. 4.7

Question 3

1. The runner with 12.35 seconds
2. \$2.04, \$2.40, \$2.44
3. 3.5 kg
4. 4.7 m was longer, by 0.63 m
5. 0.5 means 5 tenths and 0.45 means 4 tenths and 5 hundredths. Tenths are compared first, and 5 tenths is more than 4 tenths.

