Name & Surname: _____ Class: _____ Date: _____

Decimals to Thousandths

Read, write, and compare with confidence

About 50 minutes Level ★★★☆☆

Reading and Comparing Decimals

Decimals show parts of a whole. The **decimal point** separates whole numbers from tenths, hundredths, and thousandths.

- Read 2.75 as **two and** seventy-five hundredths, not point seven five.
- Line up **decimal points**, then compare tenths, hundredths, thousandths from left to right.
- Add **zeros** to line up places: 0.5 = 0.50 = 0.500.

Key words

decimal point: dot that separates whole numbers from parts

hundredths: 100 equal parts of one; second place after the point

place value: value of a digit by its position

tenths: 10 equal parts of one; first place after the point

thousandths: 1,000 equal parts of one; third place after the point

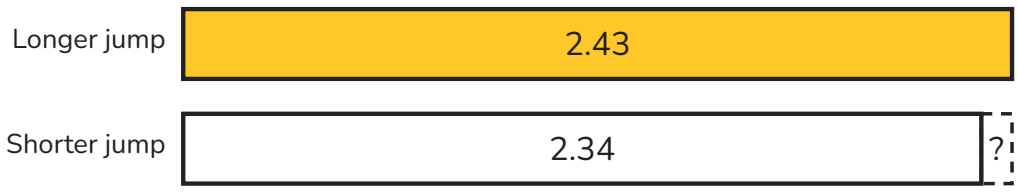
compare: decide which number is greater or less

Task A

/4

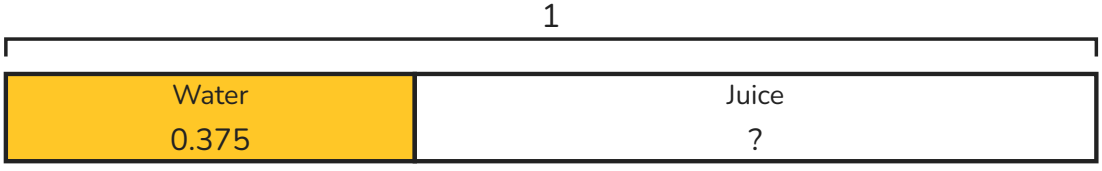
Use the bar models to combine and compare decimals.

1 A student jumped **2.43 meters**. Another student jumped **2.34 meters**. How much farther was the longer jump?



Answer: _____ **meters**

2 A measuring cup holds **1 liter** in total. It has **0.375 liters** of water and the rest is juice. How much juice is there?



Answer: _____ **liters**

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Read and Write Decimals

Practice reading, writing, and naming place value.

Task B

/10

Write each decimal carefully and watch place value.

WARM UP

1 Write in numbers: three and **forty-two hundredths**.

Answer: _____

2 Write in numbers: five and **six thousandths**.

Answer: _____

3 Which digit is in the **thousandths place** in 0.157?

Answer: _____

4 Write 2.75 in **words** the place-value way.

Answer: _____

PRACTICE

5 Compare using < or >: 0.5 **?** 0.36

Answer: _____

6 Compare using < or >: 2.43 **?** 2.34

Answer: _____

7 Order from **least to greatest**: 1.29, 1.3, 1.32

Answer: _____

PROBLEM SOLVING

8 A student says 0.36 > 0.5 because 36 > 5. Explain why the **comparison** is wrong.

Answer: _____

9 What is the **difference** between 2.43 and 2.34?

Answer: _____

10 Order four **heights** from least to greatest: 1.6, 1.605, 1.56, 1.65 meters

Answer: _____

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Compare and Order Decimals

Compare to thousandths and fix common mistakes.

Task C

/10

Line up decimal points and compare from left to right.

WARM UP

1 Write 0.157 in **words**.

Answer: _____

2 Write in numbers: two and **one hundred forty-six thousandths**.

Answer: _____

3 Which digit is in the **thousandths place** in 5.275?

Answer: _____

4 Does 1.3 = 1.30? Write **yes or no**.

Answer: _____

PRACTICE

5 Compare using < or >: 0.157 **?** 0.146

Answer: _____

6 Compare using < or >: 5.275 **?** 5.257

Answer: _____

7 Order from **least to greatest**: 0.5, 0.505, 0.55, 0.055

Answer: _____

PROBLEM SOLVING

8 What is the **difference** between 5.275 and 5.257?

Answer: _____

9 A student writes 0.7 as 0.70 to compare with 0.65. Which is greater? Explain using **tenths**.

Answer: _____

10 A student says 2.8 < 2.125 because 8 < 125. What **mistake** did they make?

Answer: _____

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Decimals in Real Life

Solve money and measurement problems with decimals.

Task D

/6

Show your working and line up decimal points.

1. A notebook costs **$2.35** and a pack of pencils costs **$1.25**. How much do they cost together?

Working

Answer

_____ $

2. A student ran in **14.625 seconds**. Another student ran in **14.605 seconds**. How much faster was the faster time?

Working

Answer

_____ **seconds**

3. A bottle holds **1.5 liters**. A student drinks **0.375 liters**. How much is left?

Working

Answer

_____ **liters**

Task E

/4

Write each digit in its correct place-value column.

Number	T	O	t	h	th
2.43					
0.157					
5.275					
1.3					

T = tens · O = ones · t = tenths · h = hundredths · th = thousandths

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Pyramids and Examples

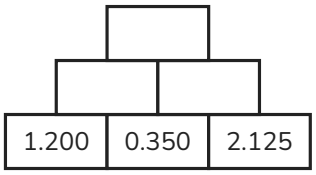
Add decimals in pyramids and review comparing.

Task F

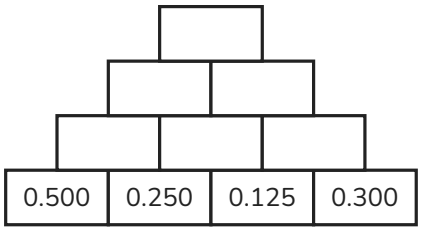
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Add each pair below to make the brick above.

1



2



Task G

/2

Follow the steps to compare and subtract decimals.

WORKED EXAMPLE

Compare 0.5 and 0.36. Which is greater?

1. Line up decimal points: write 0.5 as 0.50
2. Compare **tenths** first: 5 > 3
3. So 0.5 > 0.36

Answer: 0.5 > 0.36

YOUR TURN

Compare 0.7 and 0.65. Which is greater?

Answer: _____

WORKED EXAMPLE

Find the difference between 2.43 and 2.34

1. Line up **decimal points**
2. Subtract hundredths then tenths: 43 - 34 = 9 hundredths
3. Difference is 0.09

Answer: 0.09

YOUR TURN

Find the difference between 5.275 and 5.257

Answer: _____

How did I do?

Circle a face for each line.

I can read and write decimals to thousandths. ☹ 😐 ☺

I can compare decimals using place value. ☹ 😐 ☺

I can order decimals from least to greatest. ☹ 😐 ☺

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Answer sheet: Decimals to Thousandths

Task A

1. 0.09 meters
2. 0.625 liters

Task B

1. 3.42
2. 5.006
3. 7
4. two and seventy-five hundredths
5. 0.5 > 0.36
6. 2.43 > 2.34
7. 1.29, 1.3, 1.32
8. 0.5 has 5 tenths and 0.36 has only 3 tenths, so 0.5 is greater.
9. 0.09
10. 1.56, 1.6, 1.605, 1.65

Task C

1. one hundred fifty-seven thousandths
2. 2.146
3. 5
4. yes
5. 0.157 > 0.146
6. 5.275 > 5.257
7. 0.055, 0.5, 0.505, 0.55
8. 0.018
9. 0.7 is greater because 7 tenths is more than 6 tenths.
10. They compared digits to the right without comparing tenths first; 8 tenths is more than 1 tenth, so 2.8 is greater.

Task D

1. $3.60 (2.35 + 1.25 = 3.60)
2. 0.02 seconds (14.625 - 14.605 = 0.02)
3. 1.125 liters (1.5 - 0.375 = 1.125)

Task E

1. 2.43: – | 2 | 4 | 3 | –
2. 0.157: – | 0 | 1 | 5 | 7
3. 5.275: – | 5 | 2 | 7 | 5
4. 1.3: – | 1 | 3 | – | –

Task F

1. 4.025 | 1.550, 2.475 | 1.200, 0.350, 2.125 (top to bottom)
2. 1.925 | 1.125, 0.800 | 0.750, 0.375, 0.425 | 0.500, 0.250, 0.125, 0.300 (top to bottom)

Task G

1. 0.7 > 0.65
2. 0.018

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