Name & Surname: _____ Class: _____ Date: _____

Decimals to Thousandths

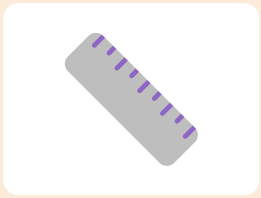
Read, write, order and compare with confidence

About 50 minutes Level ★★★☆☆

Ones, tenths, hundredths, thousandths

The **decimal** point separates whole ones from parts. To the right are **tenths**, hundredths and **thousandths**.

- Line up the **decimal** points in a place-value table.
- Fill **gaps** with zeros so all show thousandths, e.g. 2.4 = 2.400.
- Compare left to right: ones, then **tenths**, then hundredths, then thousandths.
- Example: 3.724 > 3.704 because 2 **hundredths** > 0 hundredths.



Task A

/4

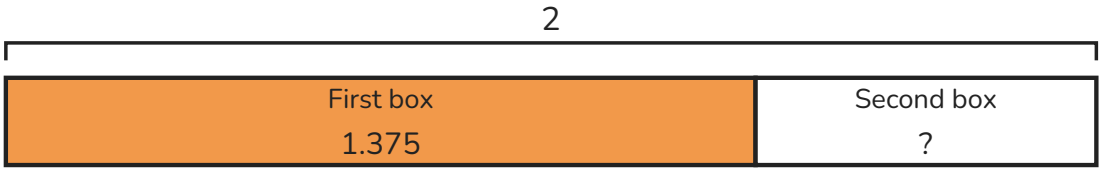
Use the bars to find the missing decimal amount.

1 A bottle holds 4.125 **litres**. A jug holds 0.025 litres **less**. How much does the jug hold?

Draw a bar model

Answer: _____ **litres**

2 A parcel weighs 2.000 **kg** in total. One box inside weighs 1.375 kg. How **heavy** is the other box?



Answer: _____ **kg**

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Read and Write

Practise reading, writing and spotting the value of digits.

Key words

tenth: one of ten equal parts: $\frac{1}{10}$ or 0.1

thousandth: one of one thousand equal parts: $\frac{1}{1000}$ or 0.001

place value: the value of a digit shown by its position

order: put numbers in size sequence

hundredth: one of one hundred equal parts: $\frac{1}{100}$ or 0.01

decimal point: the dot that separates ones from tenths

compare: say which number is greater or smaller

Task B

/10

Practise **reading**, writing and comparing **thousandths**.

WARM UP

1 Write in **numerals**: four point three seven two.

Answer: _____

2 What is the **value** of the 6 in 7.264?

Answer: _____

3 Write $\frac{5}{1000}$ as a **decimal**.

Answer: _____

4 Write 0.9 with three **decimal** places.

Answer: _____

PRACTISE

5 Which is **greater**, 1.405 or 1.45?

Answer: _____

6 Order from **smallest** to largest: 6.201, 6.21, 6.211.

Answer: _____

7 Write one number with three **decimal** places between 2.44 and 2.45.

Answer: _____

PROBLEM SOLVING

8 A beaker holds 1.375 **litres**. A student drinks 0.375 litres. How much is **left**?

Answer: _____

9 Three friends run 100 m in 14.105 s, 14.15 s and 14.051 s. Who was **quickest**?

Answer: _____

10 Explain how you **know** that 0.606 is greater than 0.066.

Answer: _____

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Spot the Mistake

Find the wrong step and put the decimal thinking right.

Task C /4

Find the wrong step, explain the mistake and give the right answer.



Student A

Which is **greater**, 2.108 or 2.18?

1. Line up points and add a zero: 2.108 and 2.180
2. Hundredths: 0 < 8 so 2.108 < 2.180
3. So the answer is 2.108 is greater

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Write 5 ones, 4 tenths, 0 **hundredths** and 7 thousandths as a **decimal**.

1. 5 ones = 5
2. 4 tenths and 7 thousandths = 0.47
3. So the answer is 5.47

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

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Order and Compare

Order decimals, fill number lines and solve measurement problems.

Task D

/10

Practise ordering and comparing decimals on number lines.

WARM UP

1 Write 8.094 in **words**.

Answer: _____

2 How many **thousandths** are in 0.028?

Answer: _____

3 Write < or > to compare 3.7 and 3.701: 3.7 [ ] 3.701. Think about **thousandths**.

Answer: _____

4 Circle the **largest**: 9.09, 9.009, 9.099, 9.9.

Answer: _____

PRACTISE

5 Order from largest to **smallest**: 4.402, 4.42, 4.042, 4.204.

Answer: _____

6 A **number** line goes from 5.30 to 5.31 in ten equal steps. What is the third mark after 5.30?

Answer: _____

7 Find a **missing** number with three decimal places: 2.15 < [ ] < 2.16.

Answer: _____

PROBLEM SOLVING

8 A parcel weighs 2.875 **kg**. Another weighs 2.785 kg. How much **heavier** is the first parcel?

Answer: _____

9 Put in **order** starting with the shortest: 1.208 m, 1.28 m, 1.082 m.

Answer: _____

10 Explain how you **know** that 7.02 = 7.020.

Answer: _____

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Pyramids and Decisions

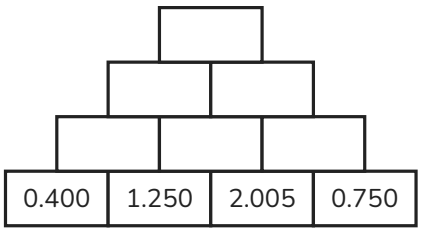
Build adding pyramids and decide always, sometimes or never.

Task E

/9

Add each pair to find the brick above.

1



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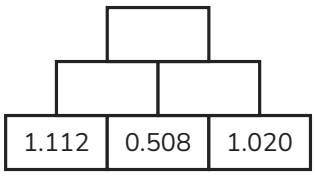

Task F

/3

Decide if each sentence is always, sometimes or never true. Show an example.

Statement	Always	Sometimes	Never
Adding **zeros** to the end of a decimal does not change its **value**.			
Convince me: _____			
A number with three **decimal** places is **smaller** than a number with one decimal place.			
Convince me: _____			
If two numbers are the same except for the **thousandths** digit, the one with 8 thousandths is **greater** than the one with 2 thousandths.			
Convince me: _____			

How did I do?

Circle a face for each line.

I can read and write numbers with up to 3 decimal places. ☹ 😐 ☺

I can order and compare decimals using place value. ☹ 😐 ☺

I can explain my thinking about thousandths. ☹ 😐 ☺

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Answer sheet: Decimals to Thousandths

Task A

1. 4.100 litres
2. 0.625 kg

Task B

1. 4.372
2. 0.06
3. 0.005
4. 0.900
5. 1.45
6. 6.201, 6.21, 6.211
7. 2.441
8. 1 litre
9. 14.051 seconds
10. Both have 0 ones. Tenths 6 is greater than tenths 0, so 0.606 is greater.

Task C

1. Step 3 is wrong: They compared the hundredths correctly then flipped the conclusion. 0 hundredths < 8 hundredths, so 2.108 < 2.18. Correct answer: 2.18
2. Step 2 is wrong: They missed the 0 hundredths. The hundredths place needs a zero holder: 5.407, not 5.47. Correct answer: 5.407

Task D

1. eight point zero nine four
2. 28
3. <
4. 9.9
5. 4.42, 4.402, 4.204, 4.042
6. 5.303
7. 2.155
8. 0.09 kg
9. 1.082 m, 1.208 m, 1.28 m
10. Adding a zero in the thousandths place does not change the value. Both have 7 ones, 0 tenths and 2 hundredths.

Task E

1. 10.915 | 4.905, 6.010 | 1.650, 3.255, 2.755 | 0.400, 1.250, 2.005, 0.750 (top to bottom)
2. 3.148 | 1.620, 1.528 | 1.112, 0.508, 1.020 (top to bottom)

Task F

1. Always (0.7 = 0.70 = 0.700 because 7 tenths = 70 hundredths.)
2. Sometimes (0.999 < 2.5 but 3.456 > 2.5. Length alone does not decide size.)
3. Always (5.128 > 5.122 because 8 thousandths > 2 thousandths.)

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