Name & Surname: _____ Class: _____ Date: _____

Tenths to Decimals

Write tenths and hundredths as decimals.

About 40 minutes Level ★★★☆☆

Tenths and hundredths as decimals

Fractions with 10 or 100 as the denominator can be written as **decimals**. The **decimal point** separates ones from tenths and hundredths.

- $\frac{1}{10} = 0.1$, so $\frac{6}{10} =$ **0.6**
- $\frac{1}{100} = 0.01$, so $\frac{9}{100} =$ **0.09**
- $\frac{35}{100} = \frac{3}{10} + \frac{5}{100} = 0.3 + 0.05 =$ **0.35**
- $\frac{1}{2} = \frac{50}{100} =$ **0.5** and $\frac{1}{4} = \frac{25}{100} =$ **0.25**

Task A

/4

Write each decimal in the place value chart.

Number	Tens	Ones	Tenths	Hundredths
0.4				
2.3				
5.07				
3.42				

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Quick Start Practice

Practise writing tenths and hundredths as decimals.

Task B /10

Practise writing tenths and hundredths as decimals.

WARM UP

1 Write $\frac{1}{10}$ as a **decimal**.

Answer: _____

2 Write $\frac{4}{10}$ as a **decimal**.

Answer: _____

3 Write $\frac{9}{100}$ as a **decimal**.

Answer: _____

4 Write $\frac{32}{100}$ as a **decimal**.

Answer: _____

PRACTISE

5 What **decimal** is 3 **tenths** and 5 **hundredths**?

Answer: _____

6 Write $\frac{70}{100}$ as **tenths** in **decimal** form.

Answer: _____

7 Which is larger: 0.6 or 0.06? Write the larger **decimal**.

Answer: _____

PROBLEM SOLVING

8 A jug holds $\frac{70}{100}$ of a litre of water. Write this as a **decimal** in litres.

Answer: _____

9 A runner ran $\frac{3}{10}$ km and then $\frac{25}{100}$ km. Write the **total** as a **decimal** in km.

Answer: _____

10 A student says 0.4 is the same as 0.04. Explain the **mistake** using **place value**.

Answer: _____

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Spot the Mistake

Find where the working goes wrong.

Key words

tenth: one part of ten equal parts

decimal point: the dot that separates ones from tenths

equivalent: equal in value

hundredth: one part of a hundred equal parts

decimal: a number that uses a dot to show parts smaller than one

Task C

/4

Find the wrong step and write the correct answer.



Student A

Write $\frac{7}{100}$ as a **decimal**.

1. $\frac{7}{100}$
2. = 7 hundredths
3. = 0.7
4. So the answer is 0.7

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____



Student B

Write $\frac{1}{2}$ as a **decimal**.

1. $\frac{1}{2}$
2. = $\frac{50}{100}$
3. = 0.2
4. So the answer is 0.2

The mistake is in step: _____

What went wrong?

.....

Correct answer: _____

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Stretch and Solve

Work with bigger fractions, measures and money.

Task D

/10

Use place value to write bigger decimals.

WARM UP

1 Write $\frac{11}{10}$ as a **decimal**.

Answer: _____

2 Write $3\frac{7}{10}$ as a **decimal**.

Answer: _____

3 Write $\frac{5}{100}$ as a **decimal**.

Answer: _____

4 Write $\frac{68}{100}$ as a **decimal**.

Answer: _____

PRACTISE

5 Work out 43 ÷ 100. Write the answer as a **decimal**.

Answer: _____

6 Write $\frac{1}{4}$ as a **decimal**.

Answer: _____

7 Write <, > or = to compare the **decimals**: 0.52 _ 0.35

Answer: _____

PROBLEM SOLVING

8 A ribbon is $\frac{135}{100}$ m long. Write this length as a **decimal** in metres.

Answer: _____

9 Count up in **hundredths** from 2.46. What **decimal** comes after 2.49?

Answer: _____

10 Explain how you know $\frac{3}{4} = 0.75$ using **hundredths**.

Answer: _____

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Odd One Out

Compare pictures and decimals to finish.

Task E

/3

Circle the odd one out in each row.

1. $\frac{30}{100}$ | 0.3 | 0.03 | $\frac{3}{10}$

   Why?

2. 0.05 | $\frac{1}{2}$ | $\frac{50}{100}$ | 0.5

   Why?

3. 0.25 | $\frac{1}{4}$ | $\frac{25}{100}$ | 2.5

   Why?

Task F

/2

Read and shade the bars. Write each fraction as a decimal, then write <, > or = to compare.

1



Fraction shaded: $\frac{\square}{\square}$

2

Shade $\frac{3}{10}$



How did I do?

Circle a face for each line.

I can recognise and write tenths as decimals. ☹ 😐 ☺

I can recognise and write hundredths as decimals. ☹ 😐 ☺

I can use place value to compare decimals to 2 decimal places. ☹ 😐 ☺

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Answer sheet: Tenths to Decimals

Task A

1. 0.4: – | 0 | 4 | –
2. 2.3: – | 2 | 3 | –
3. 5.07: – | 5 | 0 | 7
4. 3.42: – | 3 | 4 | 2

Task B

1. 0.1
2. 0.4
3. 0.09
4. 0.32
5. 0.35
6. 0.7
7. 0.6
8. 0.7
9. 0.55
10. 0.4 is 4 tenths but 0.04 is 4 hundredths, so 0.4 is ten times larger.

Task C

1. Step 3 is wrong: They wrote 7 hundredths as 7 tenths. Hundredths need two places after the point, so $\frac{7}{100}$ = 0.07. Correct answer: 0.07
2. Step 3 is wrong: They did not convert hundredths correctly. 50 hundredths is 5 tenths, so $\frac{50}{100}$ = 0.5. Correct answer: 0.5

Task D

1. 1.1
2. 3.7
3. 0.05
4. 0.68
5. 0.43
6. 0.25
7. 0.52 > 0.35
8. 1.35
9. 2.50
10. $\frac{3}{4}$ = $\frac{75}{100}$, and $\frac{75}{100}$ = 0.75, so they are equivalent.

Task E

1. 0.03 (The others all equal 3 tenths. 0.03 means 3 hundredths.)
2. 0.05 (The others all equal a half. 0.05 means 5 hundredths.)
3. 2.5 (The others all equal a quarter. 2.5 means 2 ones and 5 tenths.)

Task F

1. $\frac{6}{10}$
2. Shade 3 of the 10 equal parts ($\frac{3}{10}$).

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