

# One whole, ten parts – introducing tenths

MODULE 1 · PLACE VALUE AND THE DECIMAL NUMBER SYSTEM NUMBER

If you split **one whole** into **ten equal parts**, each part is one **tenth**. Written as a fraction:  $\frac{1}{10}$ .  
Written as a decimal: **0.1**.

→  $\frac{3}{10} = 0.3$  (three tenths).

→  $\frac{7}{10} = 0.7$  (seven tenths).

→ Ten tenths make one whole:  $\frac{10}{10} = 1.0$ .

## HOW TO ANSWER TODAY

- **Expanded form (decimals).** Write the decimal as a sum of its parts: ones, tenths, hundredths. Skip any part that is 0.

$$4.52 = 4 + 0.5 + 0.02 \cdot 0.07 = 0.07$$

- **Decimal places.** Tenths is the first digit after the point, hundredths the second, thousandths the third.

In 4.82 the digit in the tenths place is 8. · In 0.345 the hundredths digit is 4.

## TRY IT ON THE LINE

Each strip is split into ten equal tenths. Colour the asked fraction on each strip, then write its decimal underneath.

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shade  $\frac{3}{10}$  —  
write as a decimal: \_\_\_\_\_

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shade  $\frac{7}{10}$  —  
write as a decimal: \_\_\_\_\_

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shade more than  $\frac{1}{2}$  but less than —  
 $\frac{7}{10}$  fraction: \_\_\_\_\_

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all ten shaded —  
fraction: \_\_\_\_\_ decimal: \_\_\_\_\_

1. Strip 1: shade three tenths from the left. Write  $\frac{3}{10}$  as a decimal.
2. Strip 2: shade seven tenths from the left. Write  $\frac{7}{10}$  as a decimal.
3. Strip 3: shade more than five tenths but less than seven tenths — write the fraction.
4. Strip 4: every cell is already shaded. Write  $\frac{10}{10}$  as a fraction and as a decimal.

## PRACTICE

- 1 On the 5th class tour to the Cliffs of Moher, Oisín walks **8.32 km** along the cliff path during the day. Write **8.32** in expanded form, showing the ones, tenths and hundredths parts.

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- 2 On the 5th class nature walk through the local park, Oisín measures a small toadstool and notes its height in his copybook as **2.52 cm**. Write **2.52** in expanded form, showing the ones, tenths and hundredths parts.

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