

# Place value of decimals to thousandths

After the decimal point the places are **tenths, hundredths, thousandths** — each one **ten times smaller** than the one before.

- **0.486** = 4 tenths + 8 hundredths + 6 thousandths.
- **0.7** = **0.70** = **0.700** — adding trailing zeros doesn't change the value.

### HOW TO ANSWER TODAY

- **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.
- **Expanded form (decimals).** Write the decimal as a sum of its parts: ones, tenths, hundredths. Skip any part that is 0.  
 $4.52 = 4 + 0.5 + 0.02$  ·  $0.07 = 0.07$

### WARM-UP

Write the value of the underlined digit in words.

	Value of the underlined digit
a. 4.&u>582	<input type="text"/>
b. 3.6 <u>7</u> 1	<input type="text"/>
c. 0.09 <u>4</u>	<input type="text"/>
d. <u>2</u> .458	<input type="text"/>

### PRACTICE

- 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.
- At the Cumann na mBunscol blitz in the county grounds, Tadhg records that his team's average score per match is **6.96** points. Write **6.96** in expanded form, showing the ones, tenths and hundredths parts.

### CHALLENGE

- On the coach trip to the Burren, Cian's GPS app shows the bus has travelled **4.191 km** since the last stop. Between which two whole kilometres does **4.191** sit on the number line, and which whole kilometre is it closer to?
- Ms Murphy marks the 5th class sprint times on a number line on the board before the pupils line up at the door for yard. Cian's time was **3.387 seconds** over the class average. Between which two whole numbers does **3.387** sit on the number line, and which whole number is it closer to?