

# Numbers with 3 decimal places

Identify the value of each digit in a number with 3 decimal places



1 Count on five numbers from each number with 2 decimal places.

**Example**  
 $6.38$ ,  $6.39$ ,  $6.40$ ,  $6.41$ ,  $6.42$ ,  $6.43$

a  $3.47$    b  $2.89$    c  $4.07$    d  $5.26$    e  $3.98$    f  $4.57$   
 g  $6.39$    h  $2.06$    i  $8.18$    j  $4.95$    k  $7.35$    l  $8.88$

2 Look at the decimal numbers in Question 1. What two numbers with 1 decimal place do they come between?

**Example**  
 $6.3$ ,  $6.38$ ,  $6.4$

**Hint**  
 Convert the tenths into hundredths,  
 $6.3$  to  $6.30$  and  $6.4$  to  $6.40$ .

Count on five numbers from each number with 3 decimal places.

**Example**  
 $6.328$ ,  $6.329$ ,  $6.330$ ,  $6.331$ ,  $6.332$ ,  $6.333$

a  $3.867$    b  $6.108$    c  $2.759$    d  $9.015$    e  $4.268$    f  $7.009$   
 g  $5.486$    h  $3.111$    i  $5.437$    j  $6.546$    k  $1.001$    l  $4.873$

Look at the decimal numbers in Question 1. What two numbers with 2 decimal places do they come between?

**Example**  
 $6.32$ ,  $6.328$ ,  $6.33$

**Hint**  
 Convert the hundredths into thousandths,  
 $6.32$  to  $6.320$  and  $6.33$  to  $6.330$ .

3 Choose five numbers from Question 1 and write the value of each of the digits.

4 Put all the numbers from Question 1 in order, smallest to largest.

5 Write ten numbers with 3 decimal places where:

- the thousandths digit is even
- the hundredths digit is lower than 5
- the tenths digit is half the thousandths digit.

**Example**  
 $6.328$   
 $6$ ,  $0.3$ ,  $0.02$ ,  $0.008$

**3.428** fits all these properties.

### Challenge 3

1 Use these four number cards.

5   9   2   7

a Make twelve different numbers with a 1s digit and 3 decimal places.

b Write the numbers in order, smallest to largest, leaving a space in between each of the numbers.

**Example**  
 $2.579$ ,  $\quad$ ,  $2.597$ ,  $\quad$ ,  $5.279$  ...

c Write numbers with 3 decimal places that could come in between your numbers and keep the order.

2 Write a number with 3 decimal places that could come between each pair of decimals.

a  $3.53$     $3.54$    b  $4.12$     $4.13$   
 c  $7.06$     $7.07$    d  $6.28$     $6.29$   
 e  $8.75$     $8.76$    f  $5.66$     $5.67$   
 h  $9.94$     $9.95$    i  $3.47$     $3.48$

**Example**  
 $2.43$     $2.44$   
 $2.434$

g  $1.02$     $1.03$   
 j  $5.31$     $5.32$

