



- 1) In ascending order: a (2.212), c (2.409), d (2.43), b (2.532), e (2.54)
- 2) a)  $1.324 < 1.33$
- b)  $3.24\text{km} > 3.204\text{km}$
- c)  $2.51\text{km} < 2.524\text{km} > 2.52\text{km}$

3)

Visual Representation	Number
Smallest Children should have drawn a visual representation of 1.199.	1.199
	1.211
Children should have drawn a visual representation.	A number between 1.212 and 1.245
	1.246
Largest Children should have drawn a visual representation.	A number larger than 1.246

- 1) Ian thinks that because 345 is greater than 4, 2.345 is greater than 2.4. However, he is not thinking about the value of the digits. 2.4 has four tenths, whereas 2.345 only has 3 tenths, therefore 2.4 is greater than 2.345.
- 2) Teacher to check number lines.

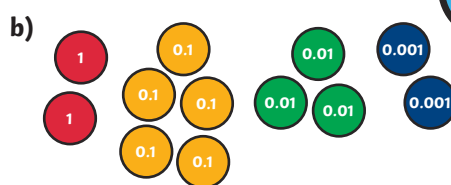
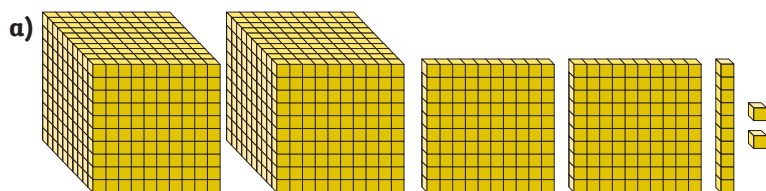


- 1) Multiple solutions possible. Here are five possible answers:  
 $2.125 < 2.233$   
 $2.215 < 2.233$   
 $2.225 < 2.331$   
 $2.235 < 2.321$   
 $2.315 < 2.322$
- 2) a) Possible solution:  
 $0.001, 0.024, 0.039, 0.159, 0.167$
- b) Possible solution:  
 $0.008, 0.032, 0.034, 0.165, 0.167$

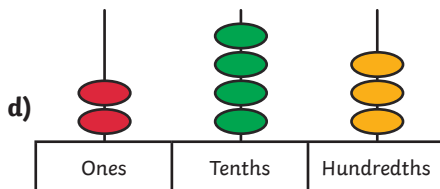




1) Put these decimals in ascending order.



c)  $2 + 0.4 + 0.009$



e)  $\frac{2540}{1000}$

2) Complete these statements by using the correct symbol:  $<$ ,  $>$  or  $=$ .

a)   $1+0.3+0.03$

b) 

3.24km		3.204km
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c) 

2.51km		$\frac{2524}{1000}$ km		$\frac{252}{100}$ km
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3) These decimals have been ordered smallest to largest. Write decimal numbers with up to 3 decimal places and draw representations to fill the gaps.

Visual Representation	Number
Smallest	1.199
Largest	

- 1) Ian says 2.345 is greater than 2.4.  
Ian is incorrect. Explain why.




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- 2) You will need a way to generate random numbers: dice, digit cards or spinners would work. Playing with a partner, generate a decimal number between 1 and 2. You can order the digits however you wish.



1.

Place this on the number line. The first to get three decimal numbers in a row wins!



Using each digit card only once, find 5 possible solutions that complete this statement.



2 .   5 < 2 .

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- 1) These decimal numbers are in ascending order. Put digits in the empty boxes to make the order correct.

a) 0.  0  , 0.0   , 0.03  , 0.1   , 0.  6

- b) Now complete the decimals, using the digits 0-8 once only so that the decimal numbers are in ascending order.

0.  0  , 0.0   , 0.03  , 0.1   , 0.  6

**Diving into Mastery**



# **Order and Compare Decimals**

# Diving into Mastery Guidance for Educators

Each activity sheet is split into three sections, diving, deeper and deepest, which are represented by the following icons:



**Diving**



**Deeper**



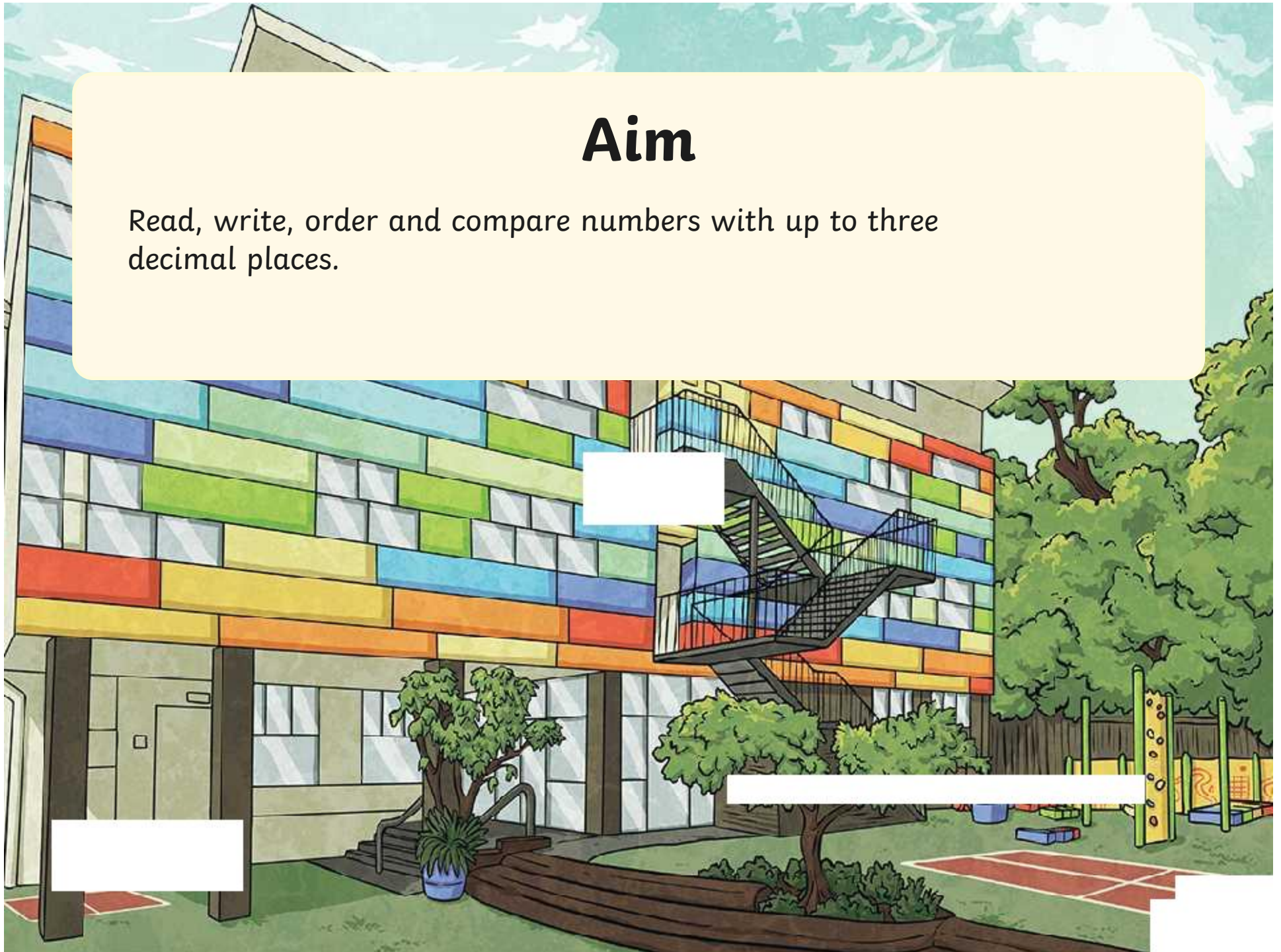
**Deepest**

These carefully designed activities take your children through a learning journey, initially ensuring they are fluent with the key concept being taught; then applying this to a range of reasoning and problem-solving activities.

These sheets might not necessarily be used in a linear way. Some children might begin at the 'Deeper' section and in fact, others may 'dive straight in' to the 'Deepest' section if they have already mastered the skill and are applying this to show their depth of understanding.

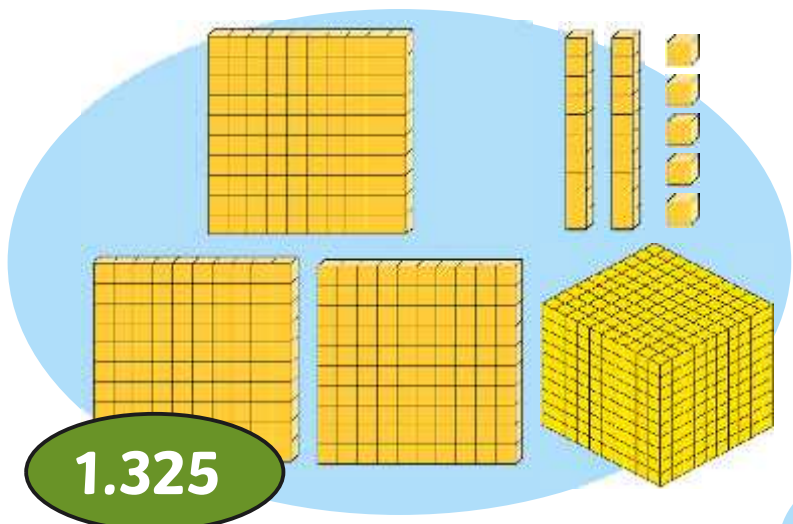
# Aim

Read, write, order and compare numbers with up to three decimal places.

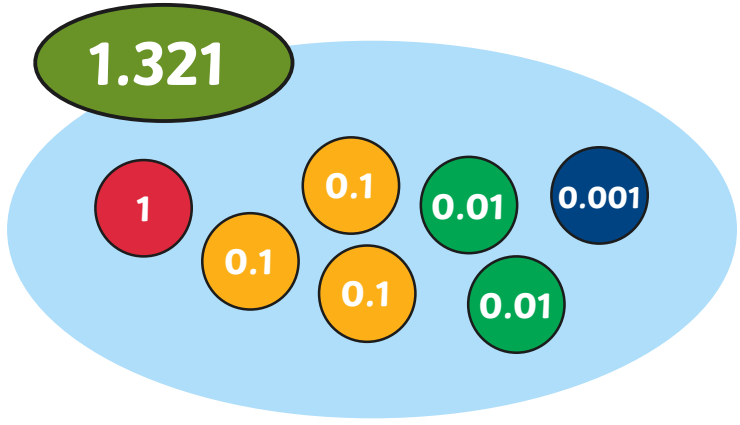


# Order and Compare Decimals

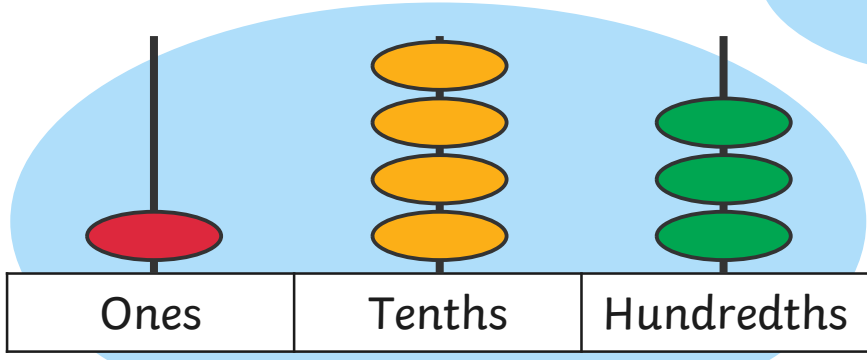
## Diving



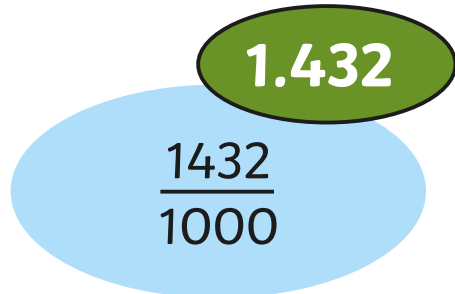
1.325



1.321



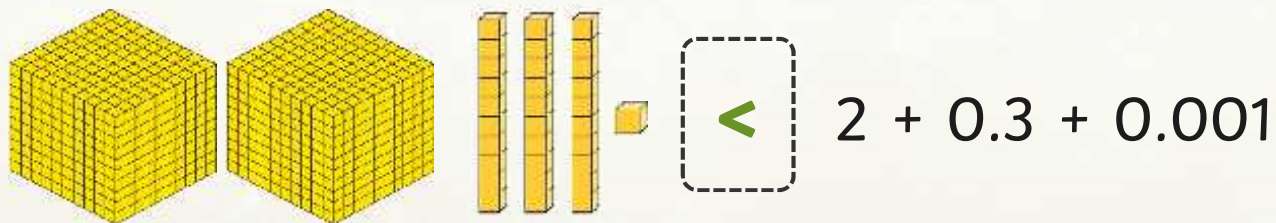
1.43



1.432, 1.43, 1.405, 1.325, 1.321



Complete these statements by using the correct symbol:  $<$ ,  $>$  or  $=$ .



2.031

2.301

0.364

 $>$  $\frac{304}{1000}$ 

3.2

 $>$  $\frac{3123}{1000}$



# Order and Compare Decimals

## Diving



These decimals have been ordered smallest to largest. Write a decimal number to 3 decimal places and draw representations to fill the gaps.

Visual Representation	Number
<p>Ones    Tenths    Hundredths    Thousandths</p>	1.199
Multiple answers in the range of 1.2 and 2.423 possible.	
	2.423
	2.424

# Order and Compare Decimals

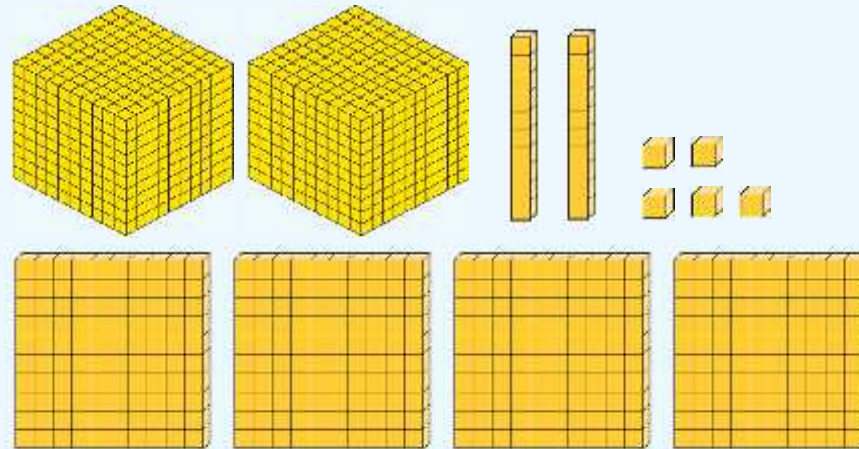
## Diving



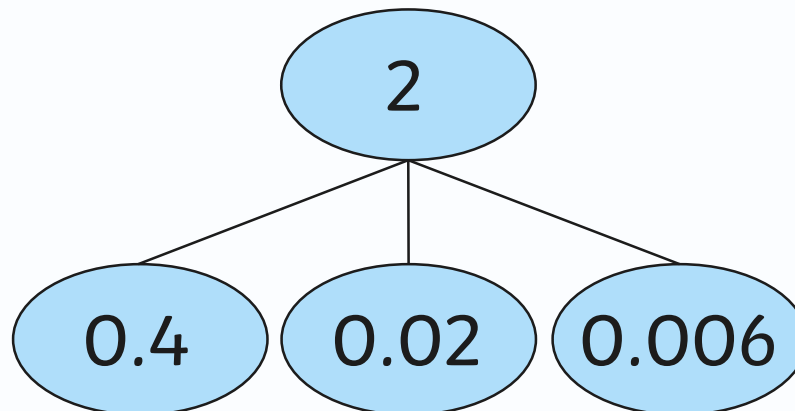
These decimals have been ordered smallest to largest. Write a decimal number to 3 decimal places and draw representations to fill the gaps.

### Visual Representation

### Number



2.425



2.426



Sharon says 1.295 is greater than 1.35 because it has more digits.

Sharon is incorrect.  
Explain why.

Sharon is not thinking about the value of the digits. 1.35 has three tenths, whereas 1.295 only has 2 tenths, therefore 1.35 is greater than 1.295.



## Order and Compare Decimals

## Deepest



Using each digit card only once, find 5 possible solutions that complete this statement.



$$2.\square\square 5 < 2.\square\square\square$$

Possible solutions:

$$2.235 < 2.344$$

$$2.245 < 2.433$$

$$2.245 < 2.334$$

$$2.335 < 2.424$$

$$2.425 < 2.433$$



These decimal numbers are in ascending order.

What could the decimals be?

1.   1, 1.0  , 1.  4 , 1.1  8, 1.  6

There are many other possible answers.

# Order and Compare Decimals

# Deepest



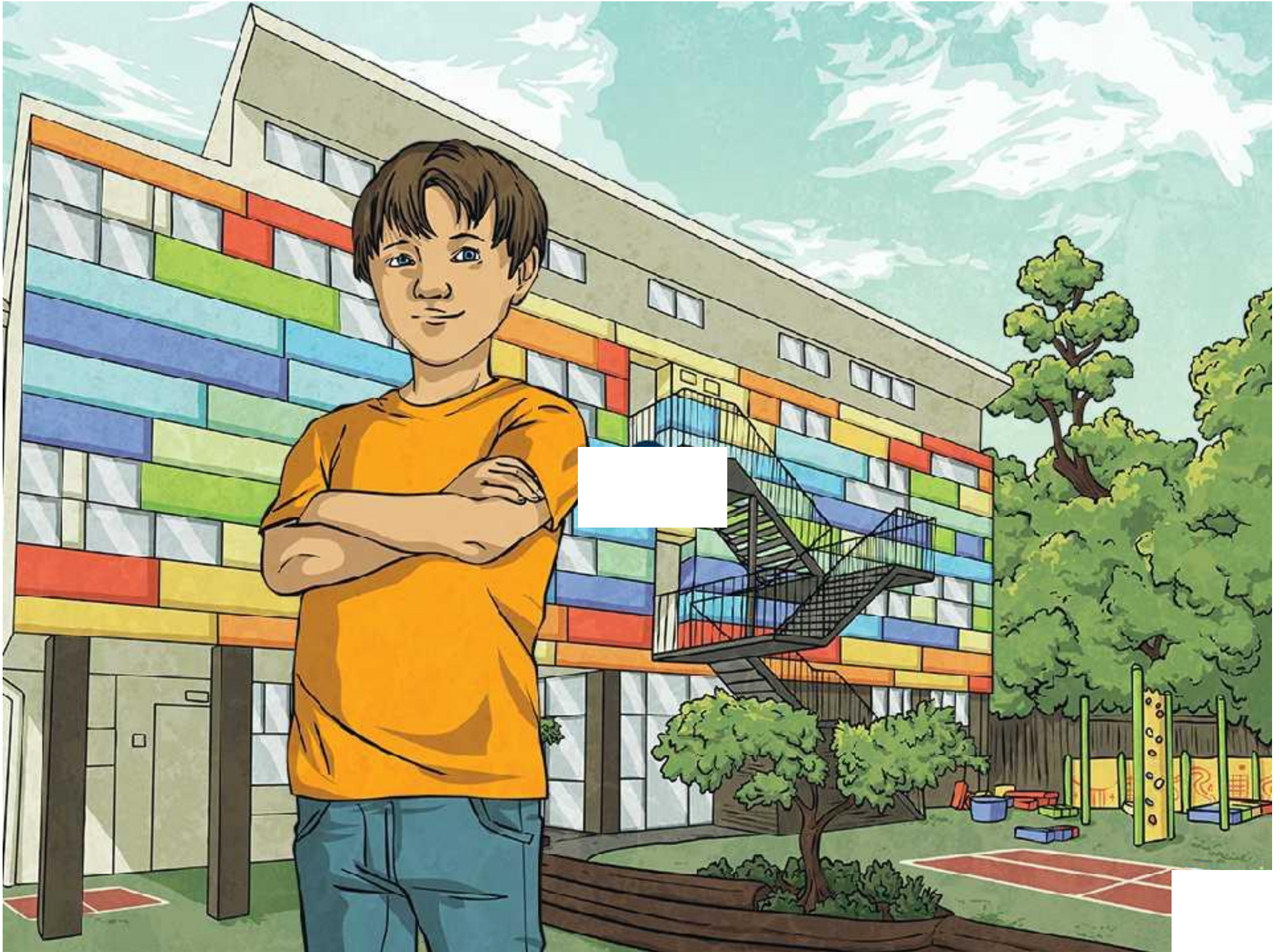
These numbers are in ascending order. Complete the decimals using the digits 0-8, using each only once.

1.   1, 1.0  , 1.  2 , 1.1  8, 1.  6

There are many other possible answers.

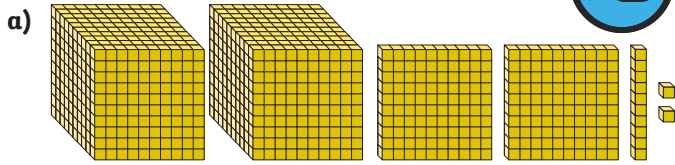




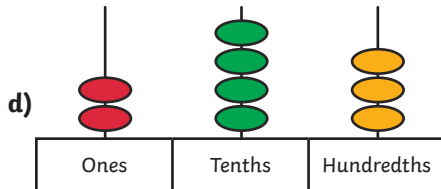




1) Put these decimals in ascending order.

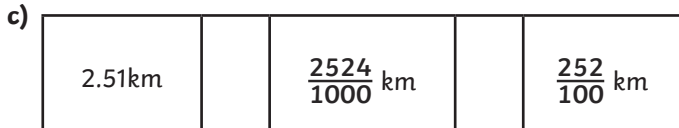
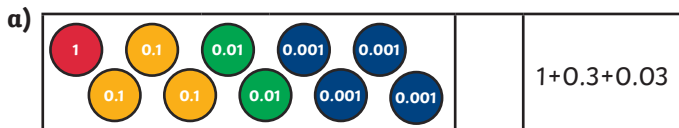


c)  $2 + 0.4 + 0.009$



e)  $\frac{2540}{1000}$

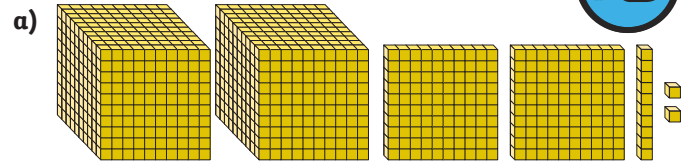
2) Complete these statements by using the correct symbol:  $<$ ,  $>$  or  $=$ .



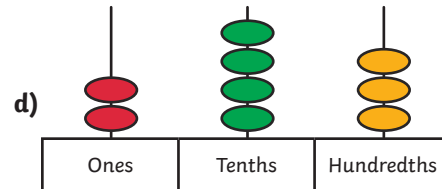
3) These decimals have been ordered smallest to largest. Write decimal numbers with up to 3 decimal places and draw representations to fill the gaps.

Visual Representation	Number
Smallest	1.199
Largest	

1) Put these decimals in ascending order.

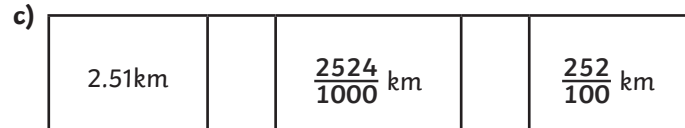
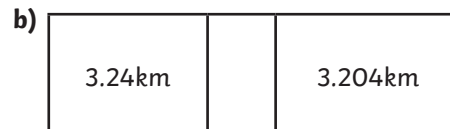
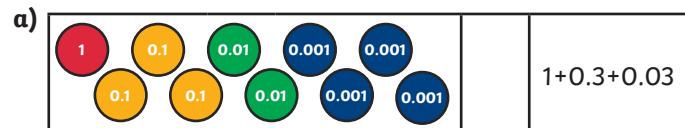


c)  $2 + 0.4 + 0.009$



e)  $\frac{2540}{1000}$

2) Complete these statements by using the correct symbol:  $<$ ,  $>$  or  $=$ .



3) These decimals have been ordered smallest to largest. Write decimal numbers with up to 3 decimal places and draw representations to fill the gaps.

Visual Representation	Number
Smallest	1.199
Largest	

- 1) Ian says 2.345 is greater than 2.4.  
Ian is incorrect. Explain why.



- 2) Draw a number line like the one below in your book. You will need a way to generate random numbers: dice, digit cards or spinners would work. Playing with a partner, generate a decimal number between 1 and 2. You can order the digits however you wish.

1.

Place this on the number line. The first to get three decimal numbers in a row wins!



- 1) Ian says 2.345 is greater than 2.4.  
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1.

Place this on the number line. The first to get three decimal numbers in a row wins!



- 1) Using each digit card only once, find 5 possible solutions that complete this statement.



1 2 2 3 3

2 .   5 < 2 .

- 2) These decimal numbers are in ascending order. Put digits in the empty boxes to make the order correct.

a) 0.  0  , 0.0   , 0.03   , 0.1   , 0.  6

b) Now complete the decimals, using the digits 0-8 once only so that the decimal numbers are in ascending order.

0.  0  , 0.0   , 0.03   , 0.1   , 0.  6

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1 2 2 3 3

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b) Now complete the decimals, using the digits 0-8 once only so that the decimal numbers are in ascending order.

0.  0  , 0.0   , 0.03   , 0.1   , 0.  6