



Decimals (1)

- Reading decimals from a number line
- Ordering decimals
- Rounding decimals to the nearest whole number
- Rounding decimals to one decimal place

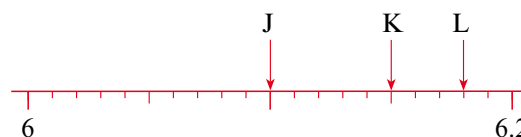
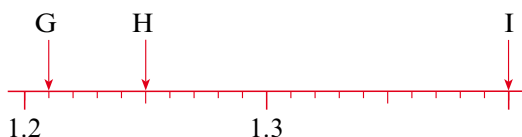
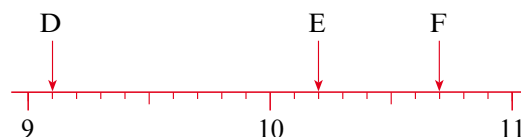
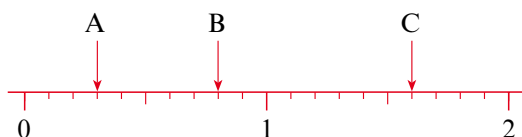
Keywords

You should know

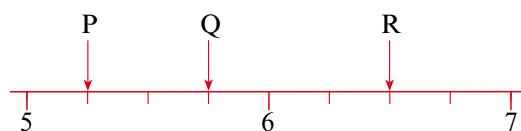
explanation 1a

explanation 1b

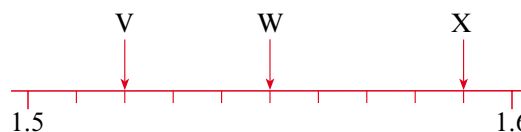
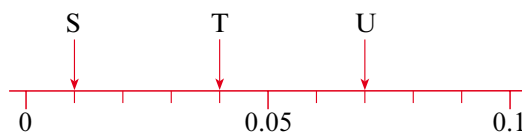
1 Here are some number lines. Write the numbers shown by the arrows.



2 Here are some number lines. Write the numbers shown by the arrows.



3 Here are some number lines. Write the numbers shown by the arrows.



explanation 2

4 Write the value of each underlined digit in words.

a 7.21

b 0.287

c 124.38

d 0.004

5 Write the value of each underlined digit as a fraction.

a 2.765

b 0.914

c 12.38

d 36.95

6 Write these numbers as decimals.

a Three tenths

b Five hundredths

c Nine thousandths

d One and six tenths

e Four and seven hundredths

f Twelve and three tenths

7 Write each fraction below as a decimal and in words.

a $\frac{3}{10}$

b $\frac{7}{100}$

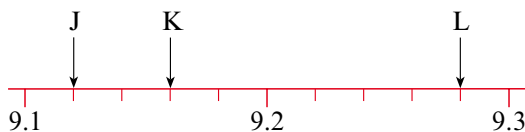
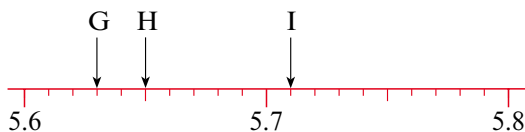
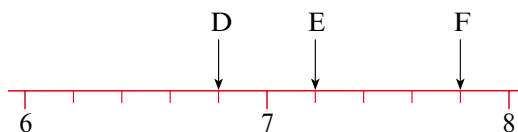
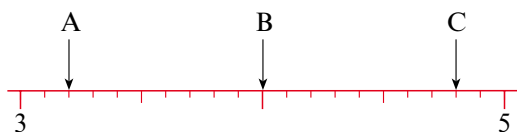
c $\frac{6}{1000}$

d $\frac{12}{100}$

8 Copy and complete the table. The first one has been done for you.

	Number in words	Decimal	Fraction
	Three tenths	0.3	$\frac{3}{10}$
a		0.6	
b			$\frac{4}{100}$
c	Eight thousandths		
d			$\frac{25}{100}$
e	Seven tenths and five hundredths		

***9** Here are some number lines. What number is shown by each arrow?



explanation 3

- 10** David says that 2.125 is bigger than 2.34 because 125 is bigger than 34.

Explain why David is wrong.

T	U	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
	2	.	3	4	
	2	.	1	2	5

- 11** Write the numbers 6.2, 6.35, 6.04 and 6.175 in order of size.
Start with the smallest.

Use the decimal table to help you.

T	U	.	$\frac{1}{10}$	$\frac{1}{100}$	$\frac{1}{1000}$
		.			
		.			

- 12** Write these numbers in order of size, smallest first.

a 6, 5.9, 5.849, 5.85, 5.49

b 11.3, 11.56, 11.18, 11.29, 11.06

c 0.278, 0.25, 0.3, 0.249, 0.28

d 7.127, 7.123, 7.12, 7.129, 7.192

e 0.0738, 0.0729, 0.073, 0.0732

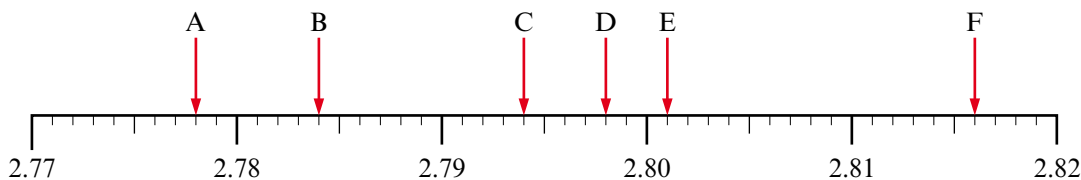
f 19.1, 19.09, 19.18, 19.099, 19.178

g 3.25, 32.5, 3.125, 31.5, 1.35

h 12.3, 12.25, 12.52, 12.1, 12, 12.325

- 13** Match the following numbers to the labelled points on the number line.

2.798, 2.801, 2.778, 2.794, 2.816, 2.784

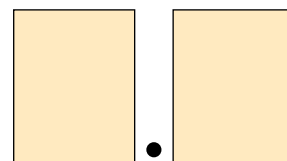


14 Here are two digit cards separated by a decimal point.

You can choose two of the four digits 1, 2, 3 and 4 to make a number.

You can only use each digit once in any number that you make.

Make a list of all the possible numbers in order of size, largest first.



explanation 4a

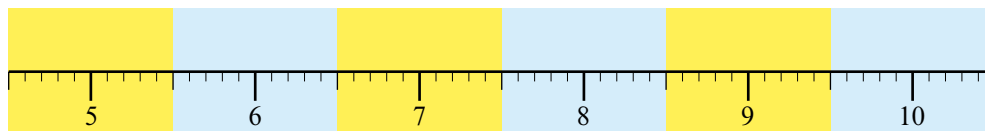
explanation 4b

15 Round each amount to the nearest pound.

- | | | | |
|-----------------|-----------------|-----------------|-----------------|
| a £8.47 | b £3.52 | c £12.70 | d £19.73 |
| e £37.56 | f £11.11 | g £96.45 | h £87.50 |

16 Round these decimals to the nearest whole number. Use the diagram to help.

- | | | | |
|---------------|---------------|----------------|---------------|
| a 9.4 | b 7.7 | c 5.5 | d 7.48 |
| e 9.75 | f 8.51 | g 10.47 | h 6.5 |



17 Round each amount to the nearest 10p.

- | | | | |
|----------------|-----------------|-----------------|-----------------|
| a £1.47 | b £3.12 | c £3.79 | d £10.98 |
| e £7.56 | f £13.51 | g £36.44 | h £42.55 |

18 Round these decimals to 1 d.p. Use the diagram to help.

- | | | | |
|---------------|----------------|----------------|----------------|
| a 8.93 | b 8.66 | c 9.04 | d 8.74 |
| e 8.75 | f 9.048 | g 8.863 | h 9.119 |

