Write decimals

1 Make the number represented on each of the place value charts.

Complete the sentences to describe each number.

a)

Ones	Tenths	Hundredths
1 1 1	0.1 0.1	0.01 0.01 0.01 0.01 0.01

There are ☐ ones,

☐ tenths and

☐ hundredths.

The number is ☐

b)

Ones	Tenths	Hundredths
	0.1 0.1 0.1 0.1 0.1	0.01 0.01 0.01 0.01 0.01 0.01

There are ☐ ones,

☐ tenths and

☐ hundredths.

The number is ☐

c)

Ones	Tenths	Hundredths
1 1 1		0.01 0.01 0.01 0.01 0.01 0.01 0.01

There are ☐ ones,

☐ tenths and

☐ hundredths.

The number is ☐

d)

Ones	Tenths	Hundredths
1 1 1	0.1 0.1 0.1 0.1 0.1 0.1 0.1	

There are ☐ ones,

☐ tenths and

☐ hundredths.

The number is ☐

5 Complete the part-whole models.

a)

0.2   0.09

c)

0.53
0.4

b)

0.3
0.07
0.1

d)

0.4
0.81
0.28
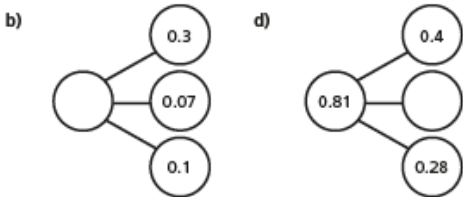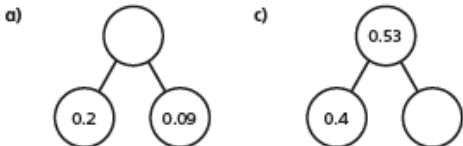
6 Here is a part-whole model.

Partition 0.72 in three different ways and complete the number sentences.

0.72

☐ + ☐ = 0.72

☐ + ☐ = 0.72

☐ + ☐ = 0.72
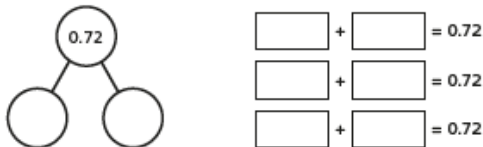
7 Eva is asked to show 10 tenths on a place value chart.

Here is her answer.

Ones	Tenths	Hundredths
	●●●●● ●●●●●	

Is Eva correct?

2 Make each number on a place value chart.

Write the value of the underlined digit.

a) 6.3̲1 _____

b) 12.0̲9 _____

c) 0.0̲7 _____

d) 5̲6.82 _____

3 Alex says the number on the place value chart is 3.4

Ones	Tenths	Hundredths
●●●		●●●●

Do you agree with Alex? _____

Explain your answer.

4 Fill in the zeros needed as placeholders for each number.

a)
T	O	Tths	Hths
3	2		4

b)
T	O	Tths	Hths
	2		4

c)
T	O	Tths	Hths
			4

d)
T	O	Tths	Hths
		5	

e)
T	O	Tths	Hths
	2		

f)
T	O	Tths	Hths
3		5	

Compare answers with a partner.

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8 Here are five number cards.

Annie, Rosie, Jack, Dora and Whitney take one card each.

| 0.06 | 0.4 | 0.2 | 0.05 | 0.03 |
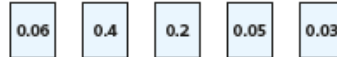
Use the clues to work out which number they each have.

Annie: My number has 5 hundredths.

Rosie: My number is twice as much as Dora's.

Jack: My number has 2 zero place holders.

Dora: My number is more than Jack's.

Whitney: My number is less than Jack's.

| Annie ☐ | Dora ☐ | Whitney ☐ |

| Rosie ☐ | Jack ☐ |

Did your partner use the same method?

Compare decimals

1 Write < or > to compare the decimals.

a)

b)

c)

d)

Did you have to compare all the columns for every question?

2 Draw counters to make the statements correct.

a) ... <

b) ... >

5 Ron and Amir have each made a number using counters on a place value chart.

Ron's looks like this:

Ones	Tenths	Hundredths
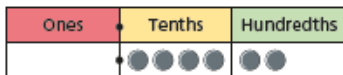
Amir's looks like this:

Ones	Tenths	Hundredths

My number is greater than Amir's, because I have used twice as many counters.
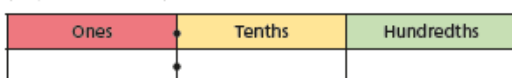
Do you agree with Ron? _____

Explain your reasoning.

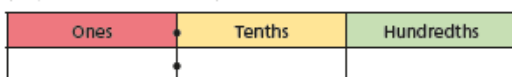**6** Draw exactly 8 counters in each chart to represent a number that matches each statement.

a) a number less than 0.76

Ones	Tenths	Hundredths

b) a number more than 5.74

Ones	Tenths	Hundredths

c) a number between 5.13 and 5.29

Ones	Tenths	Hundredths

How many different answers are there for each statement?

3 Write < or > to compare the decimals.

a)

O	Tths	Hths		O	Tths	Hths
7	6	8	○	7	0	2

b)

O	Tths	Hths		O	Tths	Hths
3	2	5	○	3	9	6

c)

O	Tths	Hths		O	Tths	Hths
0	4	1	○	0	2	9

d)

O	Tths	Hths		O	Tths	Hths
1	0	3	○	1	2	0

e)

O	Tths	Hths		O	Tths	Hths
2	7	2	○	2	7	1

4 Complete the place value charts to make the statements correct.

a)

O	Tths	Hths		O	Tths	Hths
6	2	8	<			

b)

O	Tths	Hths		O	Tths	Hths
3	2	6	>	3		

c)

O	Tths	Hths		O	Tths	Hths
9	9	8	<			

d)

O	Tths	Hths		O	Tths	Hths
1	4	6	>		8	

7 Write < or > to compare the numbers.

a) 3.2 ○ 3.8   c) 1 ○ 0.99

b) 1.46 ○ 1.43   d) 0.16 ○ 0.8

8 Fill in the missing digits to make the statements correct.

a) 0.34 < 0.3___   d) 1.3___ < 1.3___

b) 2.42 > 2.4___   e) 2.___2 > 2.___2

c) 0.74 < 0.___2   f) 0.8___ < 0.___9

Is there more than one answer for each?

9 Here are four digit cards.

| 7 | | 0 | | 3 | | 1 |

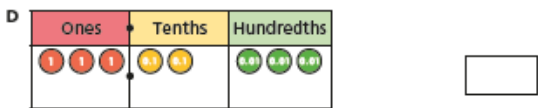Use each digit card once to make this statement correct.
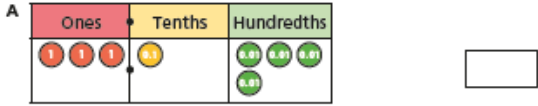
| ☐ . ☐ | > | ☐ . ☐ |

How many possible answers are there?

Order decimals

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1 Here are four numbers on place value charts.

a) What number is represented in each place value chart?

A
Ones	Tenths	Hundredths

B
Ones	Tenths	Hundredths

C
Ones	Tenths	Hundredths

D
Ones	Tenths	Hundredths
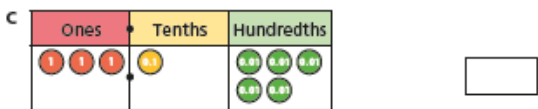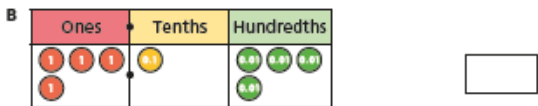
b) Write the numbers in ascending order.

_____

smallest   greatest

5 Annie and Dexter are comparing the decimals 4.12 and 4.8

Annie: 4.12 is greater than 4.8, because 12 is bigger than 8

Dexter: 4.12 is smaller than 4.8, because 12 hundredths is less than 8 tenths.
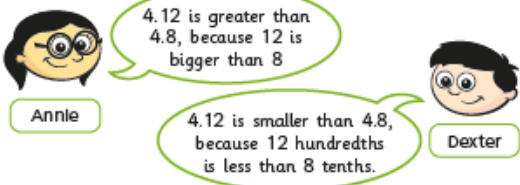
Who do you agree with? _____
Explain your answer.

6 Write < or > to complete the statements.

Decide whether the numbers are ascending or descending in each part.

a)   3.2   ◯   3.8   ◯   3.9   _____

b)   0.41   ◯   0.38   ◯   0.25   _____
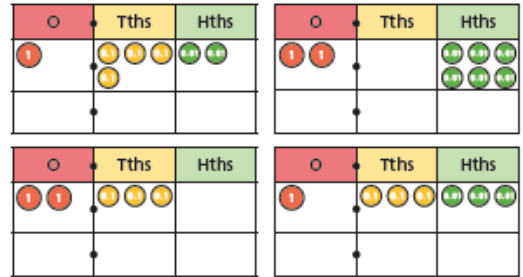
c)   4.2   ◯   4.17   ◯   4.085   _____

7 Write the numbers in ascending order.

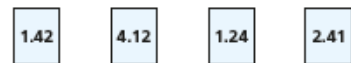a) 2.38   0.97   1.45   1.81

_____

b) 0.64   0.7   0.09   0.46

_____

c) 12.3   2   7.83   0.99

_____

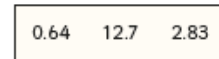**2** a) Write digits to show the number represented in each place value chart.

O	Tths	Hths

O	Tths	Hths

O	Tths	Hths

O	Tths	Hths

b) Write the numbers in ascending order.

_____

3 Write the numbers in descending order.

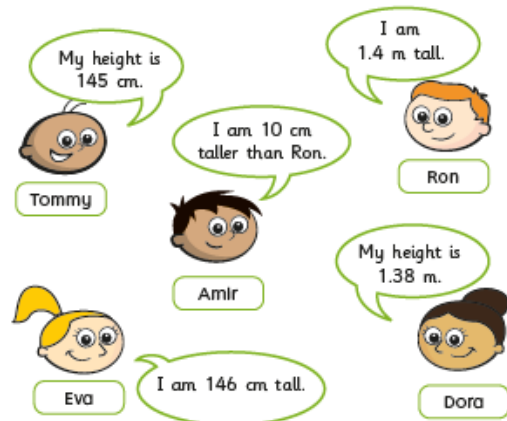| 1.42	4.12	1.24	2.41

4 Teddy's teacher asks him to put some numbers in ascending order.

Here is his answer.

| 0.64   12.7   2.83 |

Do you agree with Teddy? _____
Talk about it with a partner.

8 Tommy, Ron, Amir, Dora and Eva have measured their heights.

Tommy: My height is 145 cm.

Ron: I am 1.4 m tall.

Amir: I am 10 cm taller than Ron.

Dora: My height is 1.38 m.

Eva: I am 146 cm tall.

Write the children's names in order from shortest to tallest.

_____

9 Here are two lists of numbers.

Use the digits 0 to 9 once each to complete the lists.

ascending order   __.4__   __.41   7.__9   __.41

descending order   __.41   7.__9   __.41   __.4__

Compare answers with a partner.

Is there more than one way to complete each list?

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Round decimals

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1 Here are some number cards.

| 27 | 61 | 49 | 83 |

a) Draw arrows to estimate the position of the numbers on the number line.

```
20   30   40   50   60   70   80   90
```
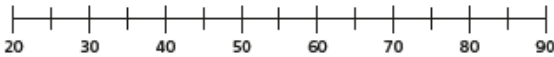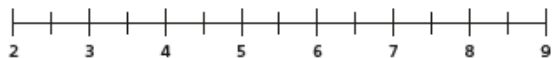
b) Use the numbers to complete the sentences.

☐ is closer to 50 than 40

☐ is closer to 30 than 20

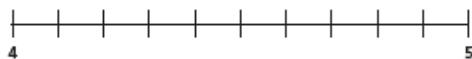☐ is closer to 80 than 90

☐ is closer to 60 than 70

2 Here are some number cards.

| 2.7 | 6.1 | 4.9 | 8.3 |

a) Draw arrows to estimate the position of the numbers on the number line.

```
2    3    4    5    6    7    8    9
```

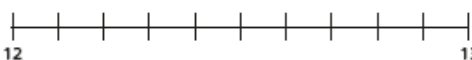**5** a) Label 4.3 on the number line.

```
4                              5
```
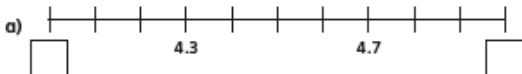
Is it closer to 4 or 5? ☐

b) Label 12.8 on the number line.

```
12                             13
```

Is it closer to 12 or 13? ☐

6 Complete the number lines and sentences.

a)
```
        4.3        4.7
```
☐   ☐

☐ is closer to ☐ than ☐

☐ is closer to ☐ than ☐

b)
```
   26.1                 26.8
```
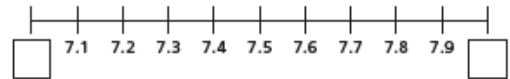☐
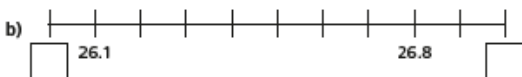
☐ is closer to ☐ than ☐

☐ is closer to ☐ than ☐

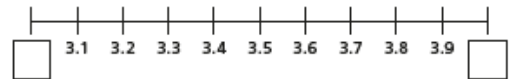b) Use the numbers to complete the sentences.

☐ is closer to 5 than 4

☐ is closer to 3 than 2

☐ is closer to 8 than 9

☐ is closer to 6 than 7

3 Fill in the integers on the number lines.

a)
☐ | 7.1 7.2 7.3 7.4 7.5 7.6 7.7 7.8 7.9 | ☐

b)
☐ | 3.1 3.2 3.3 3.4 3.5 3.6 3.7 3.8 3.9 | ☐

4 Which integers do the numbers lie between?
Fill in the boxes to make the statements correct.

a) ☐ < 1.4 < ☐

b) ☐ < 34.8 < ☐

c) ☐ < 0.7 < ☐

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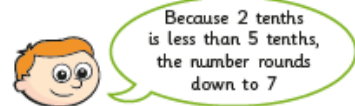**7** Which numbers round up to the nearest whole number?
Circle your answers.

4.1   2.8   0.7   12.3   0.5   99.3

8 Round each decimal to the nearest whole number.

a) 1.8 ☐   e) 13.7 ☐

b) 4.2 ☐   f) 20.1 ☐

c) 0.9 ☐   g) 0.4 ☐

d) 1.5 ☐   h) 99.8 ☐

9 Ron is rounding 8.2 to the nearest whole number.

Because 2 tenths is less than 5 tenths, the number rounds down to 7

Do you agree with Ron? _____
Explain your answer.

10 Tommy is thinking of a number that has one decimal place.

When he rounds his number to the nearest whole, the answer is 32

What number could Tommy be thinking of? ☐

Are there any other answers?

TTRS- complete minimum of 5 games. Where will you end up on the leaderboard this week?
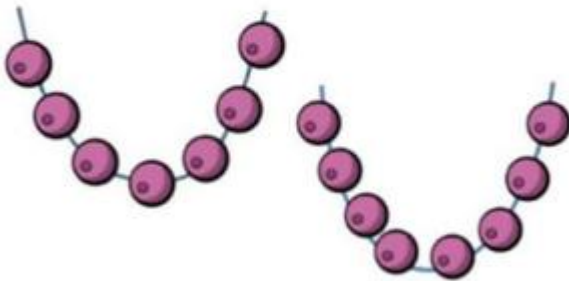
These are activities to keep our maths learning 'sticky'. Select at least 2 of the activities below to complete your maths lesson today.

- Numbots
- Maths games set as 2Dos on Purple Mash
- BBC Bitesize game- Guardians Defenders of Mathematica

Challenge 1

Sal has 20 beads.

She uses some beads to make these two necklaces.

How many beads does she have left?

Challenge 2

George is thinking of a 2 digit number.

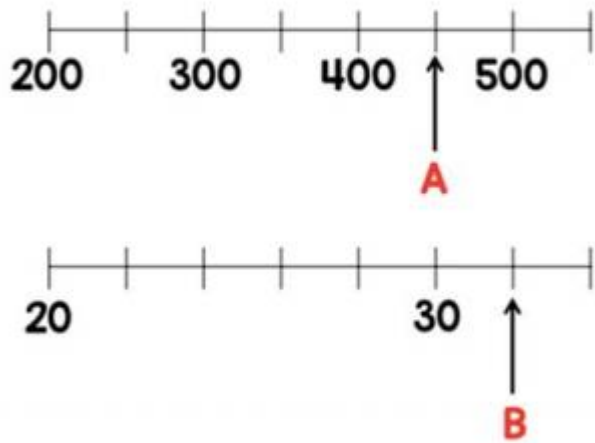My number is in the 5 times table.

My number is less than 80

The sum of the digits is 9

What number is George thinking of?

Challenge 3

Two numbers, A and B, are marked on the number lines.

Find the sum of A and B.