Tuesday 15th June 2021

Ordering and comparing decimal numbers

Complete the following sequence

□.□□, 4.32, 4.42, 4.52, □.□□

Write the numbers shown and compare using < or >

Ones	Tenths	Hundredths
	●●	●●

◯

Ones	Tenths	Hundredths
	●●	●●●

Draw counters in the place value chart to make the statement correct.

Ones	Tenths	Hundredths
●●	●●	●

<

Ones	Tenths	Hundredths

5.5	◯	5.7
0.14	◯	0.29
1	◯	0.64
3.32	◯	3.23

0.37	<	0.__7
2.22	>	2.__2
1.__1	>	1.__1
9.9__	<	9.9__

Some children have planted sunflowers and have measured their heights.

Child	Height
Beth	1.23 m
Tony	0.95 m
Rachel	1.02 m
Kate	1.2 m
Faye	99 cm
Emma	0.97 m

Order the children based on the heights of their sunflowers in both ascending and descending order.

Tuesday 15th June 2021

Ordering and comparing and decimal numbers CHALLENGE

Rav says that 0.48 is greater than 0.8 because 48 is greater than 8.

Seek and destroy his misunderstanding.

'Fill in the missing symbols (< > or =).'

0.09 + 0.8 0.98

0.07 + 4 + 0.2 4.27

Use each digit card **once** to make the statement correct.

0	1	2	4	5

3.□□ > □.□□

Can you find eight different possible solutions?

Rosie is ordering some numbers in ascending order:

0.09 < 0.99 < 10.01 < 1.35 < 9.09

Can you explain her mistake?

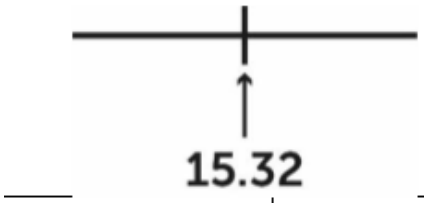
Wednesday 16th June 2021

Estimating decimal numbers

What are the missing numbers?
How do you know?

CHALLENGE

15.32 is halfway between two numbers. One of the numbers is 15.25. What could the other number be? Explain your thinking.



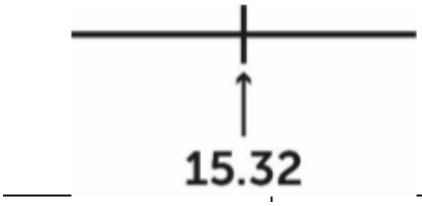
Wednesday 16th June 2021

Estimating decimal numbers

What are the missing numbers?
How do you know?

CHALLENGE

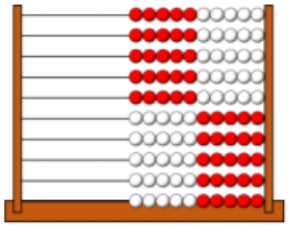
15.32 is halfway between two numbers. One of the numbers is 15.25. What could the other number be? Explain your thinking.



Thursday 17th June 2021

Finding equivalent fractions and decimals

Here is a rekenrek with 100 beads.



____ out of 100 beads are red.

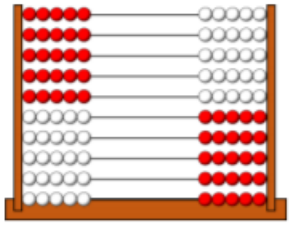
____ out of 100 beads are white.

$\frac{\square}{100}$ are red, and $\frac{\square}{100}$ are white.

Half of the beads are red, and half of the beads are white.

$\frac{1}{2} = \frac{50}{100} = \frac{5}{10}$, so $\frac{1}{2}$ is _____ as a decimal.

The beads are split equally on each side of the rekenrek.



There are 4 equal groups.

1 out of 4 equal groups = ____ beads.

1 out of 4 equal groups = $\frac{\square}{100}$

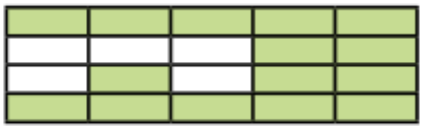
$\frac{1}{4} = \frac{\square}{100} =$ _____

What fraction is represented by 3 out of the 4 groups?

Can you write this as a decimal?

$\frac{3}{4} = \frac{\square}{100} =$ _____

Match each fraction and decimal to the corresponding image.

0.75		$\frac{1}{4}$
0.5		$\frac{3}{4}$
0.25		$\frac{1}{2}$

Thursday 17th June 2021

Finding equivalent fractions and decimals

CHALLENGE

My bag has a mass of 0.5kg. I have the bag with the greater mass.

My bag has a mass of $\frac{3}{4}$kg. I have the bag with the greater mass.

Do you agree with Sunny or Leah? Explain how you know.

Dexter has made a mistake when converting his fractions to decimals.

$\frac{1}{2} = 1.2$, $\frac{1}{4} = 1.4$ and $\frac{3}{4} = 3.4$

What mistake has Dexter made?

Complete the table by sorting these decimals and fractions into equivalent groups. The first one is done for you. There will be more than one answer in some of the boxes.

~~$\frac{10}{40}$~~	0.75	$\frac{6}{8}$	$\frac{9}{12}$
$\frac{15}{20}$	$\frac{9}{18}$	$\frac{25}{100}$	$\frac{75}{100}$
$\frac{8}{16}$	0.25	$\frac{4}{16}$	$\frac{50}{100}$

	Decimal	Equivalent Fraction
One-quarter		$\frac{10}{40}$
A half	0.5	
Three-quarters		

Alex says:

If I know $\frac{1}{2}$ is 0.5 as a decimal, I also know $\frac{3}{6}$, $\frac{4}{8}$ and $\frac{6}{12}$ are equivalent to 0.5 as a decimal.

Explain Alex's thinking.

Friday 18th June 2021

Rounding decimals