14.07.2021

WALT: Compare and order decimals and fractions

Vocabulary
part
whole
decimal
fraction
equivalence
compare
order
ascending
descending

Prior learning:

What does equivalence mean?

Find as many equivalent fractions as you can for:

0.5

0.25

0.1

Write this decimal as a fraction:

$$0.64 = \underline{\quad\quad}$$

How could we represent this?

Write this decimal as a fraction:

$$0.78 = \underline{\hspace{2cm}}$$
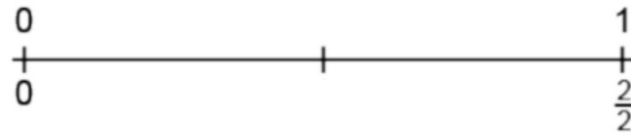
How could we represent this?

decimal

fraction

0 ————————————+————————————— 1
0                                $\frac{2}{2}$

decimal

fraction

$$0 \quad\quad\quad\quad\quad\quad\quad\quad 1$$

$$0 \quad\quad\quad\quad\quad\quad\quad\quad \frac{4}{4}$$

What do I know?
What do I need to find out?
How could I represent this?

Fill in with the missing symbols < > =

$\frac{2}{10}$ 　　　　0.5

What do I know?
What do I need to find out?
How could I represent this?

Fill in with the missing symbols < > =

Vocabulary
part
whole
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equivalence
compare

$\dfrac{7}{10}$ 0.75

What do I know?
What do I need to find out?
How could I represent this?

Put these in **ascending** order:

1.4 $4\frac{1}{4}$ 4.1   4.4

What do I know?
What do I need to find out?
How could I represent this?

John has walked 3.5km.
Sally has walked $3\frac{4}{10}$km.
Who has walked further? Explain your answer.

What do I know?
What do I need to find out?
How could I represent this?

Hinge Question

Put these in **ascending** order:

1.3 $1\frac{1}{10}$ $3\frac{1}{5}$ 3.1

Try it

1.

| 0.92 = ——— | 0.78 = ——— | 0.21 = ——— |

| 0.22 = ——— | 0.11 = ——— | 0.14 = ——— |

2. Write these decimals as mixed numbers (whole and fraction)

1.2km   5.75m   25.5kg

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

$\frac{1}{10}$ ☐ 0.75   0.4 ☐ $\frac{1}{4}$

0.5 ☐ $\frac{1}{5}$ $\frac{3}{4}$ ☐ 0.75

0.8 ☐ $\frac{4}{5}$ $\frac{1}{2}$ ☐ 0.2

4. Order these from the largest to the smallest

$3\frac{1}{5}$ 3.5 $1\frac{3}{5}$ 1.3

Use it/prove it

1. Here are two parcels:
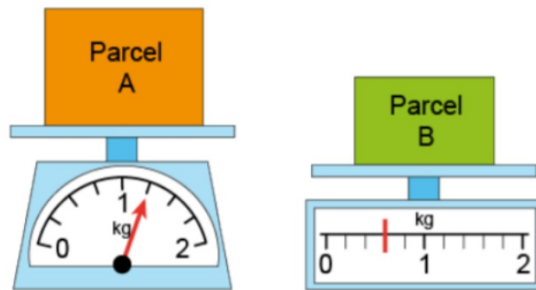
   What is the total combined weight of the parcels, in kilograms?

2. My brother weighs 27.3kg. I weigh $27\frac{1}{2}$kg. How much more than my brother do I weigh?

3. Year 6 set off on a $2\frac{3}{4}$km woodland walk. By lunch, they had walked 1.75km. How much further do they need to walk?

4. Sammie bought a bottle of Diet Coke. She drank 0.4 litres of the bottle. She spilled 0.9 litres of the bottle. How much liquid has left the bottle altogether? Answer in a fraction.