Maths



1. Solve these equations.

Write your answers as fractions.

a)
$$100x = 1.5$$

c)
$$99x = 45$$

b)
$$9x = 33$$

d)
$$999x = 137$$

2. Complete the workings to write

0.76 as a fraction.

Let
$$x = 0.\dot{7}\dot{6}$$

____ $x = 76.\dot{7}\dot{6}$
 $99x = ____$
 $x = ____$

3. Write these decimals as fractions in their simplest form.



4. Write these numbers in ascending order.

a) What do you notice about these

6. Here are some number cards.

0.38

30 99

3 11

5

$$x = \frac{7}{11}$$

Write x as a decimal.

b) Convert 0.9 into a fraction.

decimals?

Are you surprised by this answer?



Answers



- 1. Solve these equations.
- a) 100x = 1.5 c) 99x = 45 $x = \frac{3}{11}$
- b) 9x = 33 $x = \frac{11}{3}$ d) 999x = 137 $x = \frac{137}{999}$
- 2. Complete the workings to find 0.76 as a fraction.

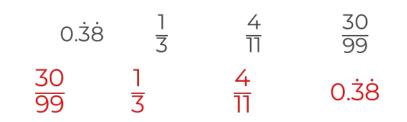
Let
$$x = 0.\dot{7}\dot{6}$$

So $\frac{100}{5}x = 76.\dot{7}\dot{6}$
So $99x = \frac{76}{99}$
So $x = \frac{76}{99}$

3. Write these decimals as fractions in their simplest form.



4. Write these numbers in ascending order.



$$5. x = \frac{7}{11}$$

Write x as a decimal. 0.63

6. a) What do you notice about these decimals? They are equivalent

0.9 0.99 0.999

b) Change 0.9 into a fraction.

Let
$$x = 0.9$$

So $10x = 9.9$
So $9x = 9$
So $x = 1$

c) Are you surprised by this answer?

This result tells us that 0.9 is equivalent to 1!

