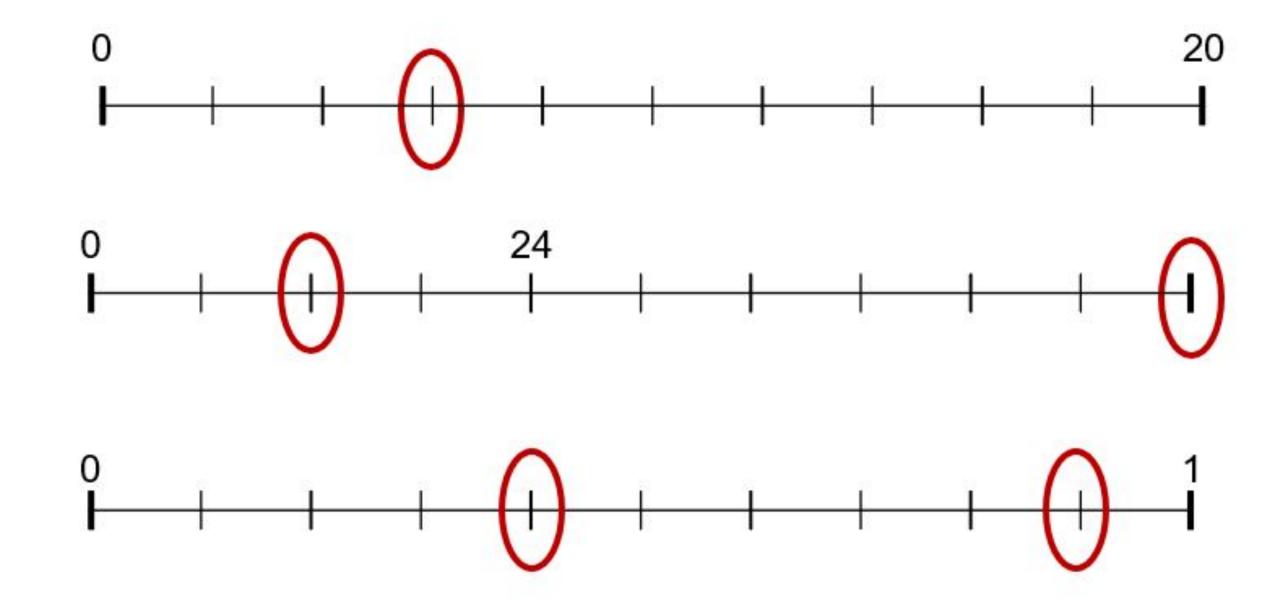Mathematics

Percentages on a number line
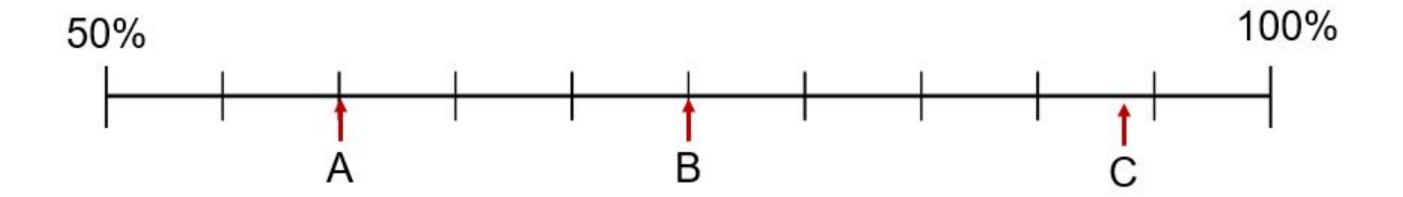
Mr Millar

Try this

Work out the marked value on each of these number lines:

Connect

What values are represented on these number lines?
Give your answers as percentages and fractions.

Independent task

1. Place these values on a number line between 0 and 1.

0 |————|————|————|————|————|————|————|————| 1

0.1 42% 0.57 $\dfrac{1}{5}$ 90% $\dfrac{7}{10}$

2. Write the following as a fraction
a) 50%   b) 23%   c) 142%

3. Write the following as a percentage
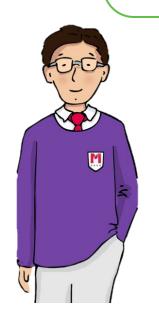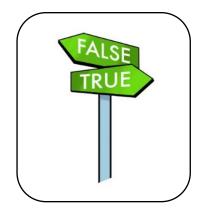a) $\dfrac{9}{100}$ b) $\dfrac{1}{5}$ c) 0.4

Explore

Do you agree with these students?

Every point on a number line between 0 and 1 represents a percentage

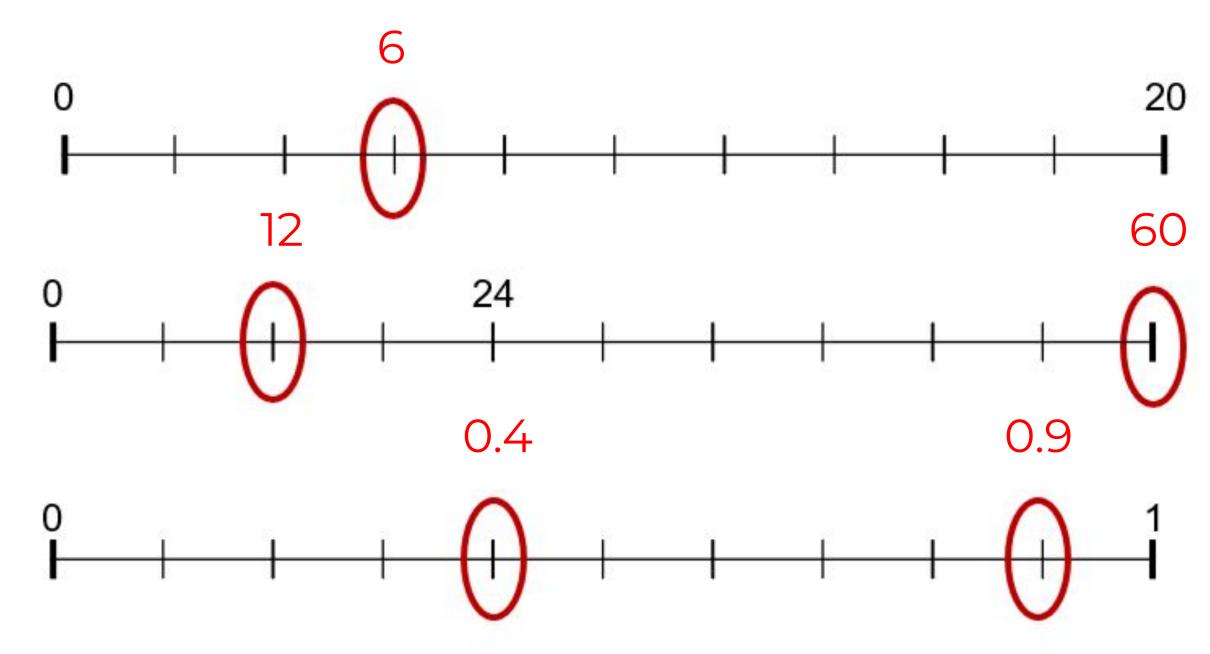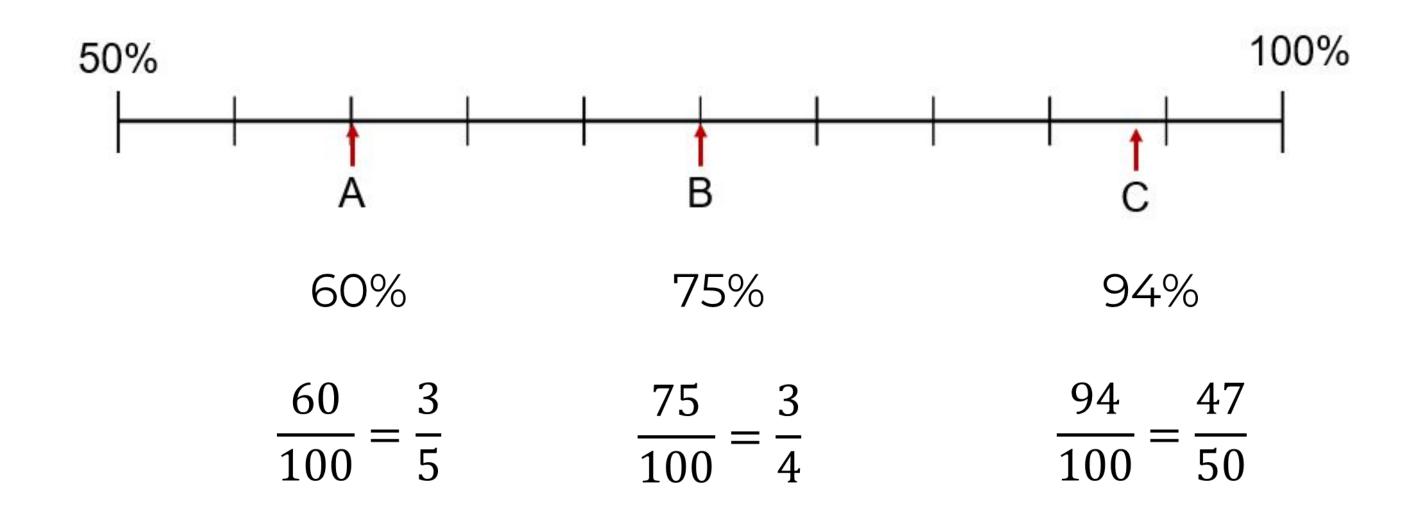Every percentage can be represented on a number line between 0 and 1

Answers

Try this

Work out the marked value on each of these number lines:

Try this
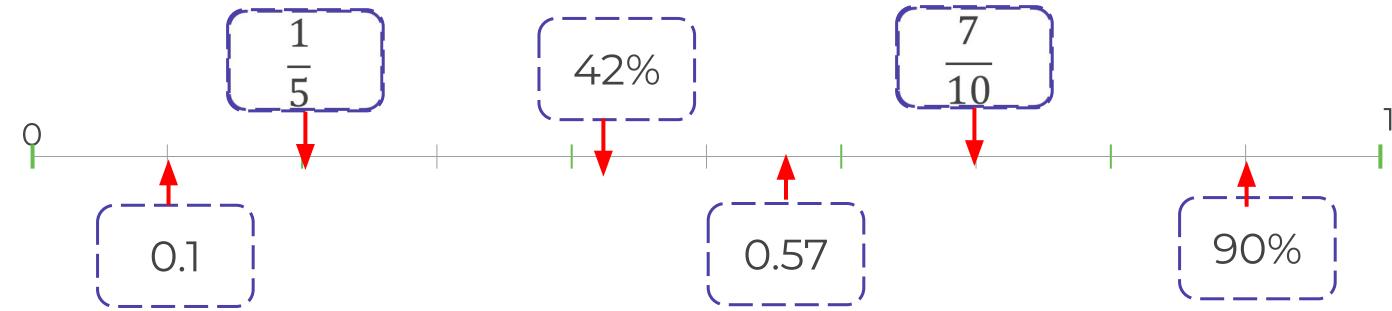
What values are represented on these number lines?
Give your answers as percentages and fractions.

50%   100%

A   B   C

60%   75%   94%

$$\frac{60}{100} = \frac{3}{5}$$ $$\frac{75}{100} = \frac{3}{4}$$ $$\frac{94}{100} = \frac{47}{50}$$

Independent task

1. Place these values on a number line between 0 and 1.

$\frac{1}{5}$　　42%　　$\frac{7}{10}$

0 ———————————————————————— 1

0.1　　0.57　　90%

2. Write the following as a fraction

a) 50% 　　$\frac{1}{2}$ 　　　b) 23% 　　$\frac{23}{100}$ 　　　c) 142% 　　$\frac{71}{50}$

3. Write the following as a percentage

a) $\frac{9}{100}$ 　9% 　　　b) $\frac{1}{5}$ 　20% 　　　c) 0.4 　40%
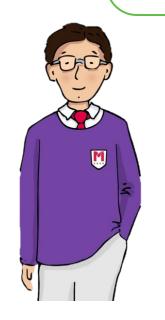
Try this

Do you agree with these students?

Every point on a number line between 0 and 1 represents a percentage

True

Every percentage can be represented on a number line between 0 and 1

False: eg 142% is to the right of 1