

# Convert fluently between key fractions, decimals and percentages

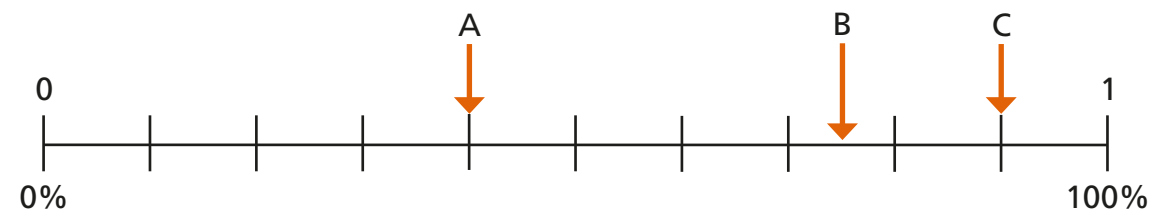
1 Match the equivalent fractions, decimals and percentages.

The first one has been done for you.

$\frac{1}{2}$	0.3	20%
$\frac{1}{10}$	0.2	50%
$\frac{1}{5}$	0.25	25%
$\frac{3}{4}$	0.75	30%
$\frac{3}{10}$	0.5	10%
$\frac{1}{4}$	0.1	75%

Diagram showing connections:  $\frac{1}{2}$  connects to 0.5, which connects to 50%.

2

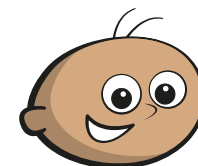


a) Write the decimals and percentages indicated by the arrows.

A \_\_\_\_\_ B \_\_\_\_\_ C \_\_\_\_\_

b) Label 60% and 0.15 on the number line.

3



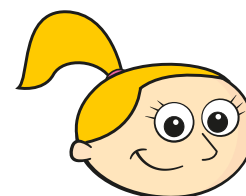
$\frac{3}{5}$  as a decimal is 0.35



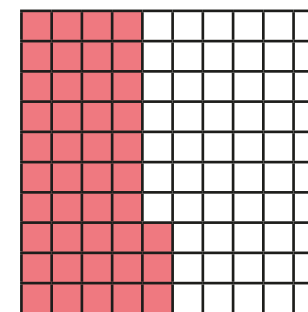
a) Use the number line to show that Tommy is wrong.

b) What is  $\frac{3}{5}$  as a decimal?

4



43% means  
'43 out of 100'. This is the  
same as  $\frac{43}{100}$  and 0.43



a) Use Eva's reasoning to convert these percentages to decimals.

64%

81%

46%

40%

4%






b) Convert these decimals to percentages.

0.13

0.22

0.06

0.76

0.765






c) Scott thinks 80% as a decimal is 0.8, but Nijah thinks 0.80 is correct.

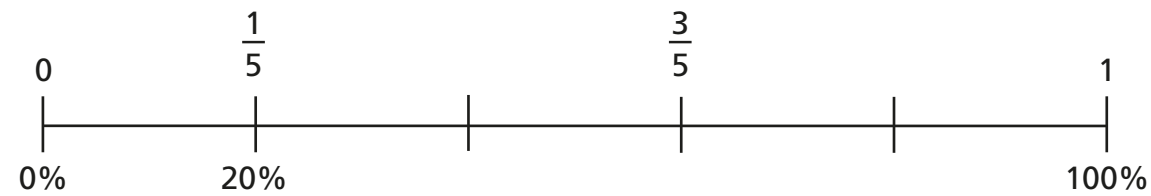
Who do you agree with? Give a reason for your answer.

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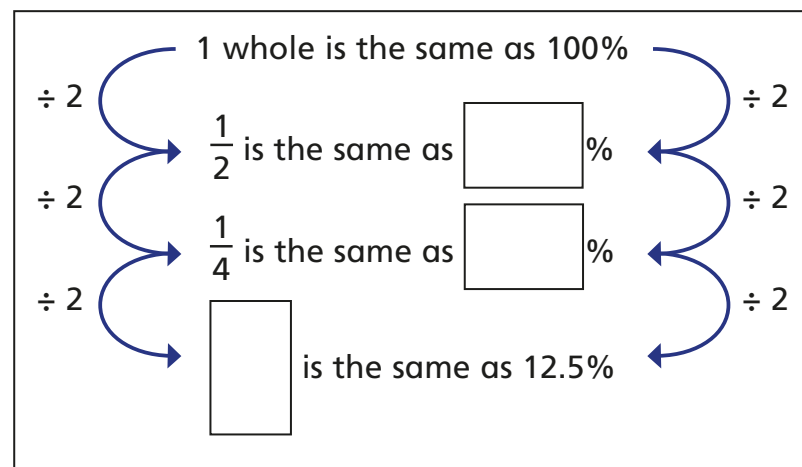


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- 5 Complete the labelling of the number line.



- 6 Fill in the missing numbers.



- 7 Kim has a large box of chocolates.

- $\frac{14}{25}$  of the chocolates are milk chocolate.
- 15% of the chocolates are dark chocolate.
- The rest are white chocolate.

Kim picks a chocolate from the box without looking.

What is the probability that she picks a white chocolate?

Give your answer as a decimal.

8

$$\frac{1}{8} = 0.125$$

- a) Circle the decimal that is equal to  $\frac{3}{8}$

0.325

0.375

0.38

0.83

- b) Circle the fraction that is equal to 0.875

$\frac{8}{75}$

$\frac{87}{5}$

$\frac{8}{7}$

$\frac{7}{8}$

9

- Write the numbers in ascending order.

a)  $\frac{1}{5}$

0.15

22%

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b)  $\frac{3}{4}$

0.34

43%

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c)  $\frac{5}{8}$

0.58

62%

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d)  $\frac{11}{25}$

$\frac{9}{20}$

$\frac{23}{50}$

42%

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