

Year 5 Maths

Summer Term 1 Week 2



Fraction and decimal equivalents

What does **equivalent** mean?



Equivalent means the same or equal to.

5 is the same as/ equal to *****

$$5 + 3 = 2 \times 4$$

When we talk about equivalent fractions and decimals we are thinking about fractions and decimals which have the same value.

These two amounts are **equivalent**

e.g. $\frac{1}{2} = 0.5$

Two blue arrows originate from the word "equivalent" in the text above. One arrow points to the fraction $\frac{1}{2}$ and the other points to the decimal 0.5 in the equation "e.g. 1/2 = 0.5".



Half Answer

Each square represents $\frac{1}{10}$ or 0.1.

Half of the 10 squares is 5.

5 squares is 0.5.

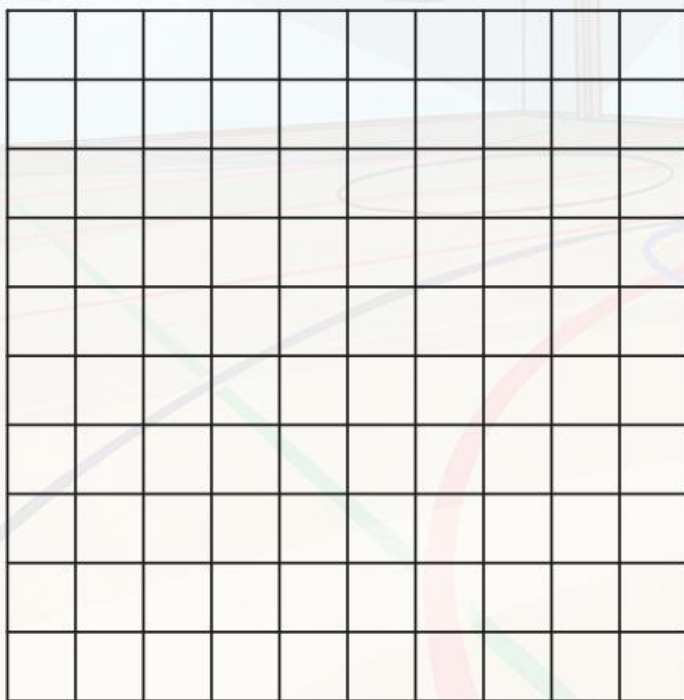
$$\frac{1}{2} = 0.5$$



Quarters

Alfie has a grid of 100 squares.

Use the grid to explain the decimal equivalences of $\frac{1}{4}$ and $\frac{3}{4}$.



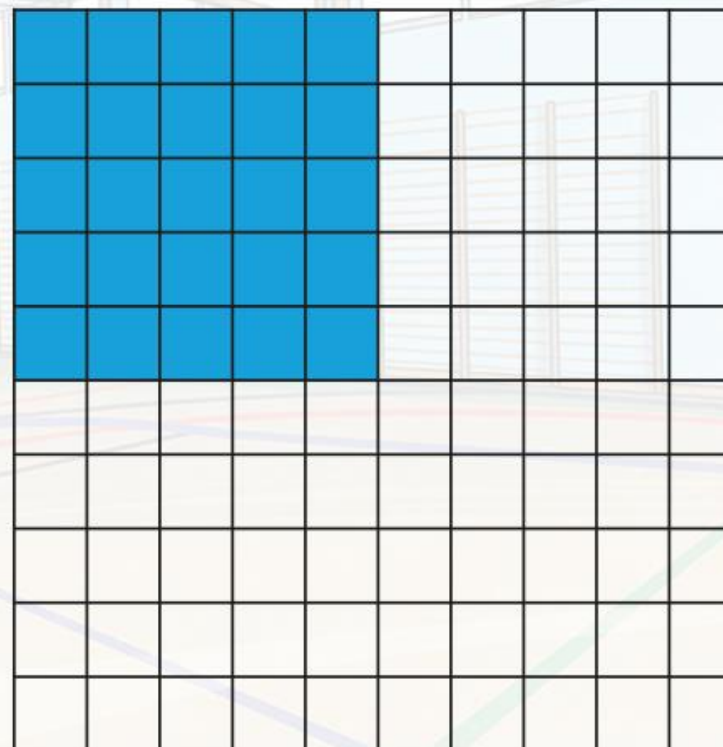
Quarters Answer 1

Each square represents $\frac{1}{100}$ or 0.01.

One quarter of the 100 squares is 25 squares.

25 squares is 0.25.

$$\frac{1}{4} = 0.25$$



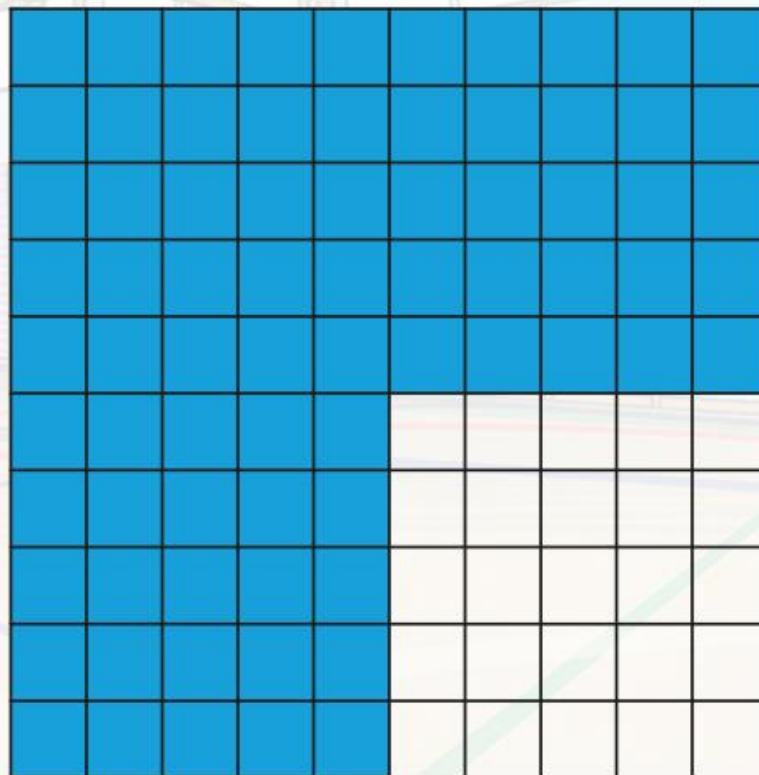
Quarters Answer 2

Each square represents $\frac{1}{100}$ or 0.01.

Three quarters of the 100 squares is 75 squares.

75 squares is 0.75.

$$\frac{3}{4} = 0.75$$



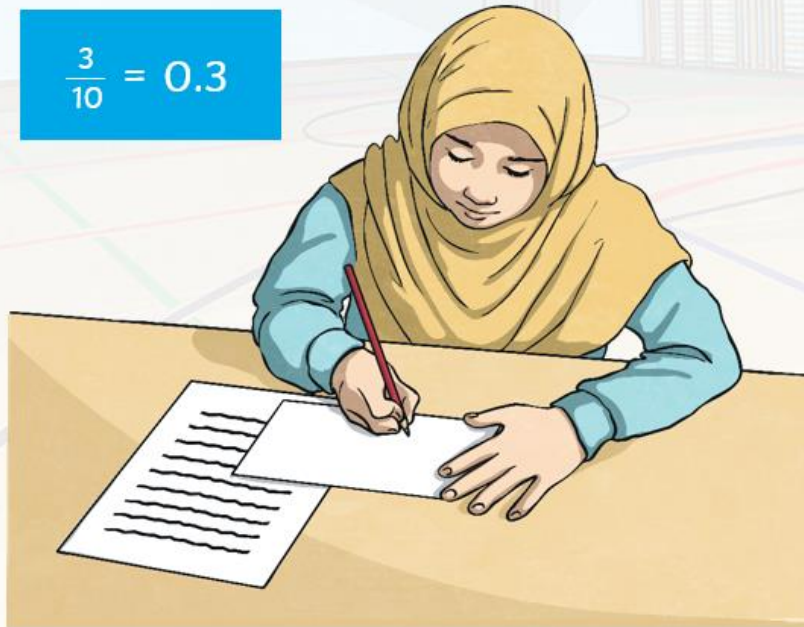
Tenths



Fatima has a grid of 10 squares.

Write the fraction and equivalent decimal fraction represented by the shaded area.

$$\frac{3}{10} = 0.3$$

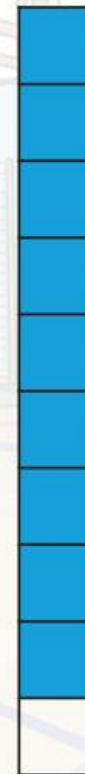


Tenths

Fatima has a grid of 10 squares.

Write the fraction and equivalent decimal fraction represented by the shaded area.

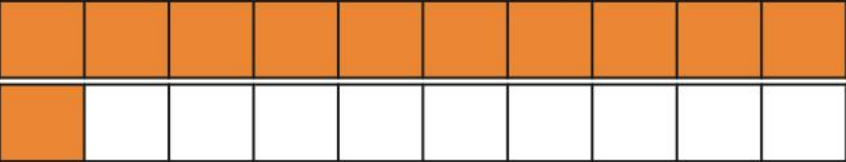



$$\frac{9}{10} = 0.9$$



Task 1

Complete the table



Representation	Decimal	Fraction
	1.1	$\frac{11}{10}$
	1.2	
		$\frac{18}{10}$
	1.6	



Task 1 Answers

Representation	Decimal	Fraction
	1.1	$\frac{11}{10}$
	1.2	$\frac{12}{10}$
	1.8	$\frac{18}{10}$
	1.6	$\frac{16}{10}$

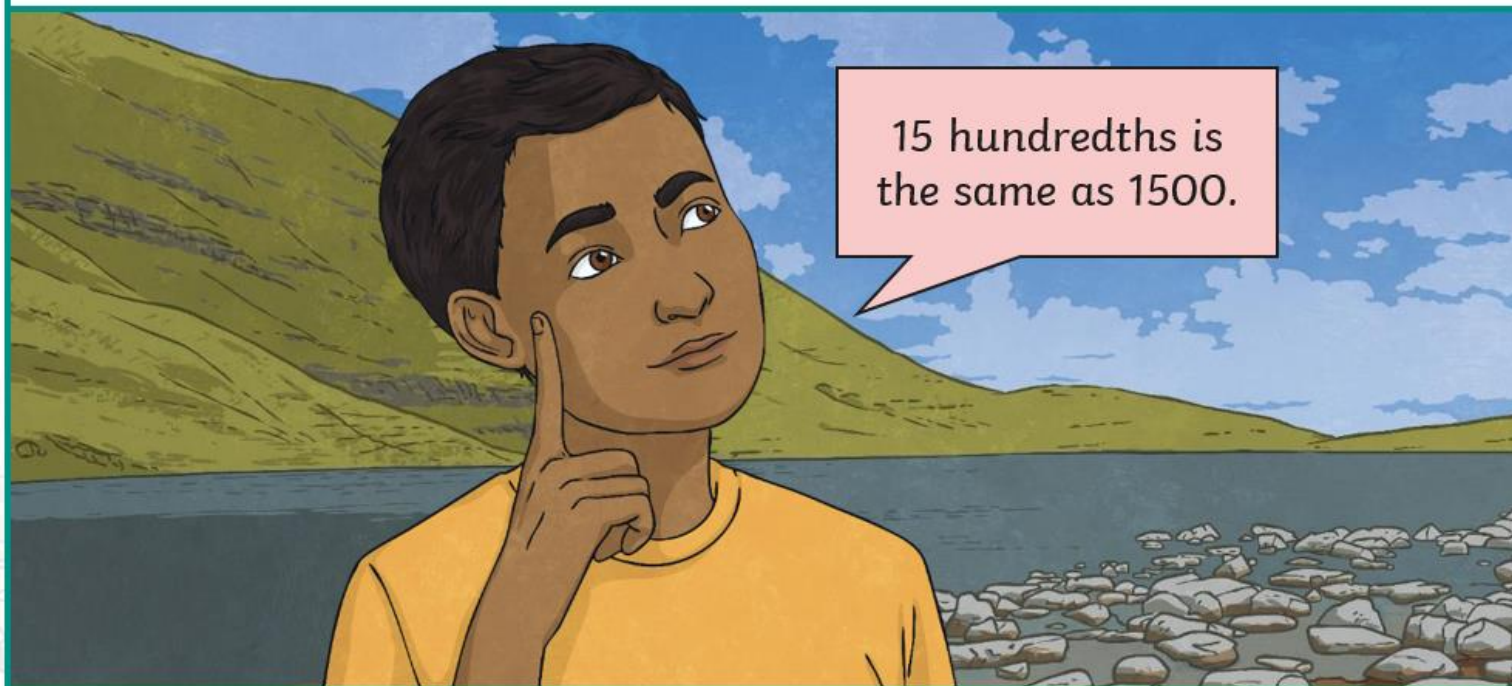
Task 2

True or false? Explain your answer.



Task 2 Answer

True or false? Explain your answer.



False. 15 hundredths = 0.15 not 1500.

The 15 hundredths have been confused with 15 hundreds.