

Lesson 1

Monday 22nd June 2020

L.O - I am learning to answer fractions questions.

Try your best to answer as many questions as you can. 😊





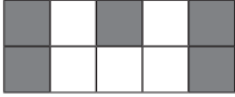
Key vocabulary: Fraction, numerator, denominator, simplify, equivalent,

Your answer


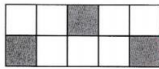
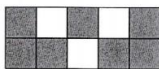


1 Here are some shapes made of squares.
[2016S] A fraction of each shape is shaded.

Match each shape to its equivalent fraction.

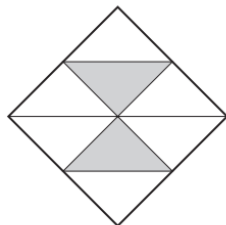
One has been done for you.

	$\frac{7}{10}$
	$\frac{3}{5}$
	$\frac{1}{2}$
	$\frac{4}{5}$
	$\frac{3}{10}$

Your answer

$\frac{8}{10}$		$\frac{7}{10}$
$\frac{3}{10}$		$\frac{3}{5}$
$\frac{7}{10}$		$\frac{1}{2}$
$\frac{6}{10}$		$\frac{4}{5}$
$\frac{5}{10}$		$\frac{3}{10}$

4 Here is a square.
[2004]



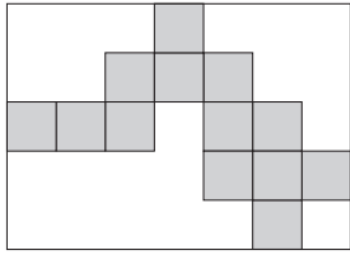
What fraction of the square is shaded?

[1 mark]

$\frac{1}{4}$

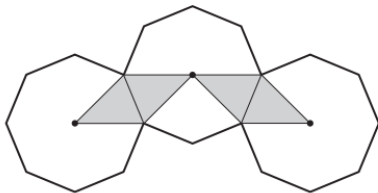
13/35

8 Here is a rectangle with 13 identical shaded squares inside it.
[2003]



What fraction of the rectangle is shaded?

12 The diagram shows three regular octagons joined together.
[2007] There is a dot at the centre of each octagon.



What fraction of the diagram is shaded?

Total of 24 triangles so 4/24 is shaded.

Simplified = 1/6

Week 8_Maths_Lesson 1

13 Stefan has a bag that contains 3 blue marbles and 5 red marbles only.
[2009]



What fraction of the marbles in the bag are blue?

Stefan adds one blue marble and one red marble to the bag.

What fraction of the marbles in the bag are blue now?

[2 marks]

3/8

4/10 or 2/5

4 Two of the fractions below are **equivalent**.

[2009] Circle them.

$\frac{2}{3}$ $\frac{6}{10}$ $\frac{9}{12}$ $\frac{10}{15}$ $\frac{16}{20}$

2/3 and 10/15

5 Complete these fractions to make each equivalent to $\frac{3}{5}$

[2001]

$\frac{\square}{10}$ $\frac{\square}{15}$

$\frac{12}{\square}$

6/10 9/15 12/20

11 Karen makes a fraction using two number cards.

[2003] She says,

'My fraction is equivalent to $\frac{1}{2}$

One of the number cards is 6'



What could Karen's fraction be?

Give both possible answers.

$\frac{\square}{\square}$ or $\frac{\square}{\square}$

6/12 or 3/6

Week 8_Maths_Lesson 1

14

Here are some digit cards.

[New]



Use **four** of the cards to complete these equivalent fractions.

Each fraction is less than one.

$$\frac{\square}{3} = \frac{6}{\square} \quad \frac{6}{\square} = \frac{\square}{4}$$

$2/3 = 6/9$ $6/8 = 3/4$

16

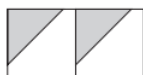
$\frac{1}{3}$ of this square is shaded.

[2008]



The same square is used in the diagrams below.

What fraction of this diagram is shaded?



What fraction of this diagram is shaded?



[2]

$1/3$

$1/9$

11

Here are four fraction cards.

[2016S]



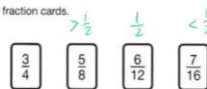
Use any **three** of the cards to make this correct.

$$\square < \square < \square$$

11

Here are four fraction cards.

[2016S]



Use any **three** of the cards to make this correct.

Handwritten solution: $\frac{7}{16} < \frac{6}{12} < \frac{5}{8}$

Handwritten work on the right shows comparisons: $\frac{7}{16} < \frac{6}{12} < \frac{5}{8}$ and $\frac{7}{16} < \frac{5}{8} < \frac{6}{12}$. A note says "[No]".

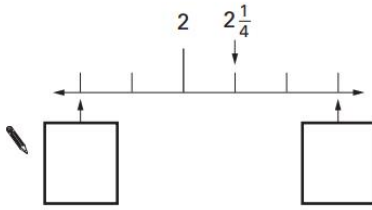
[1 mark]

Week 8_Maths_Lesson 1

16 Here is part of a number line.

[2004]

Write in the two missing numbers.



[2 marks]

$1 \frac{1}{2}$

$2 \frac{3}{4}$

18 Circle the fraction that is greater than $\frac{1}{2}$ but less than $\frac{3}{4}$

[2010]



$\frac{7}{8}$

$\frac{2}{5}$

$\frac{1}{3}$

$\frac{5}{8}$

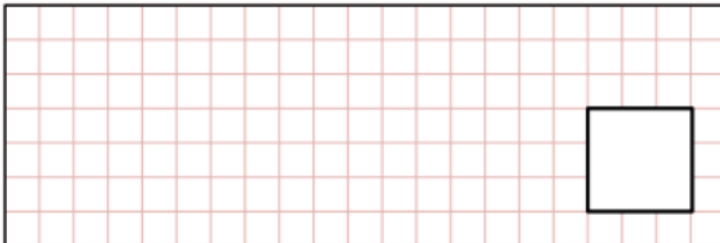
$\frac{3}{6}$

[1 mark]

$\frac{5}{8}$

23 What fraction is **exactly** half-way between $\frac{3}{5}$ and $\frac{5}{7}$?

[2000]



$\frac{23}{35}$

$\frac{3}{5} = \frac{21}{35}$

$\frac{5}{7} = \frac{25}{35}$

