





2.8 

Decimal Numbers, Percentages & Fractions

10% 

$3\frac{1}{5}$ 

Decimal Numbers, Percentages & Fractions

Contents

Page Number

Decimal Numbers

- Ordering Decimal Numbers (tenths)	2
- Making 1 (tenths), (Hundredths)	3
- Complements of 1	5
- Ordering Decimal Numbers	6
- Rounding Decimal Numbers	12
- Comparing Decimal Numbers	18
- Decimal Numbers, Length	19

Percentages / Fractions

- Percentages and Fractions	20
- Percentages of a Number	21
- Sale Time!	27
- Percentages, Fractions and Decimals	29
- Fraction, Decimal and Percentage, Equivalent	30

Fractions

- Fractions Wall and Equivalent Fractions	31
- Mixed Numbers to Improper Fractions	32
- Improper Fractions to Mixed Numbers	33
- Adding Fractions (equivalent, mixed and improper)	34
- Subtracting Fractions (equivalent, mixed and improper)	38

Answers	40
---------	----

Keep track of progress using the Progress Tracker.



I am confident with this.

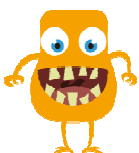


I found some parts hard.



I found this difficult, I need more practice.

Keep the Copyright monster happy!



Thank you for purchasing this pack from Teach My Kids.

By purchasing this pack you agree to the following:

The contents of this pack may be used for personal use and/or for use in the classroom use by the person who originally purchased this pack.

You must not host, reproduce or share this pack with others in any form. No part of this pack can be edited or altered. This pack may not be used for commercial purposes or sold in any way.

If you have found this pack useful, please feel free to let others know about Teach My Kids.

Decimal Numbers - Making 1 (hundredths)



1 whole one can be split into hundredths.

- One hundred hundredths make one whole one.

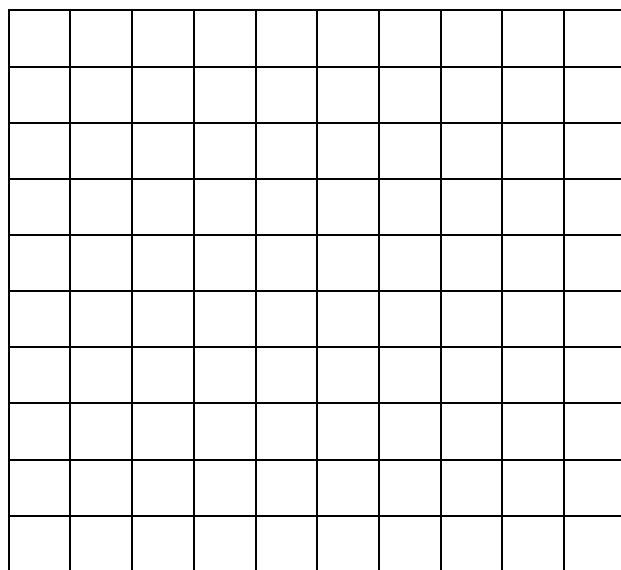
$$1 \text{ whole one} = 1.0 = \frac{100}{100}$$

- One hundredth can be written as a decimal or a fraction.

$$1 \text{ hundredth} = 0.01 = \frac{1}{100}$$

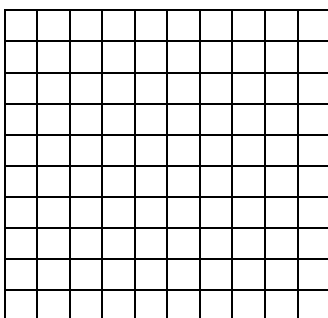
Making 1

Colour in the following: 7 hundredths blue, 13 hundredths green, 25 hundredths red, 15 hundredths brown, 10 hundredths orange, 30 hundredths purple



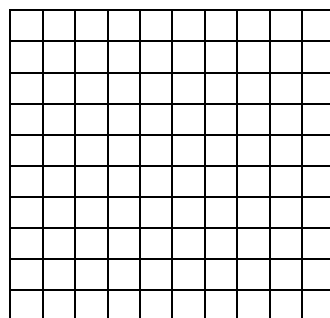
Write each coloured portion as a decimal and a fraction.

You will need two colours. Colour in to make 1.



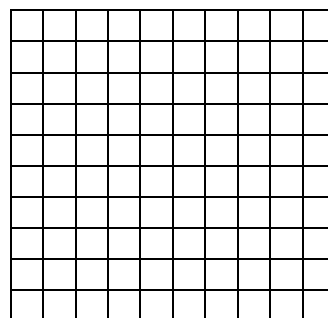
0.25

0.75



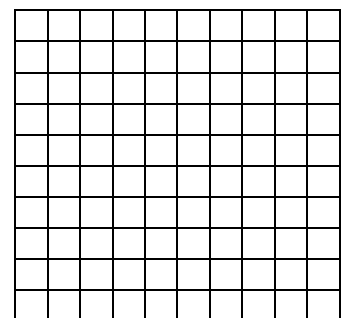
0.73

0.27



0.32

0.68



0.6

0.4

Percentages of a Number (1)



You can find a percentage of any number. Remember 100% is the whole thing, 50% is half and 25% is a quarter. Knowing the fraction equivalents can also help you work out percentages.

1. Match the percentage to the fraction equivalent.

20% 100% $\frac{1}{2}$ $\frac{3}{10}$
 50% 30% $\frac{3}{4}$ $\frac{1}{10}$
 60% 75% $\frac{1}{5}$ $\frac{2}{5}$
 25% 10% $\frac{1}{4}$
 40% $\frac{3}{5}$
 $\frac{100}{100}$

2. Find the answer to these percentages.

You can use division and multiplication to help you (similar to finding fractions of a number).

50% of 200 = _____	25% of 100 = _____	30% of 90 = _____
75% of 28 = _____	60% of 120 = _____	40% of 85 = _____
20% of 140 = _____	10% of 76 = _____	60% of 150 = _____
<u>Write some of your own.</u>		

Adding Fractions - Improper Fractions & Mixed Numbers

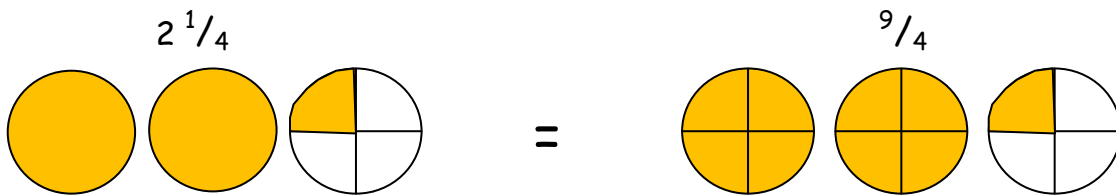


Types of fractions:

<u>Fraction</u>	<u>Improper Fraction</u>	<u>Mixed Number / Fraction</u>
$\frac{2}{3}$	$\frac{5}{3}$	$1\frac{2}{3}$

Improper fractions can be converted to mixed numbers and vice versa.

e.g.



Change these improper fractions to mixed numbers.

1. $\frac{7}{4} =$
2. $\frac{5}{2} =$
3. $\frac{10}{3} =$
4. $\frac{18}{5} =$
5. $\frac{24}{10} =$
6. $\frac{25}{6} =$

Change these mixed numbers to improper fractions.

1. $2\frac{2}{3} =$
2. $1\frac{3}{5} =$
3. $4\frac{1}{2} =$
4. $5\frac{3}{4} =$
5. $2\frac{3}{7} =$
6. $3\frac{5}{9} =$

Now add these fractions.

If the answer is an improper fraction, change it to a mixed number.

1. $\frac{3}{5} + \frac{3}{5} = \frac{6}{5} = 1\frac{1}{5}$
2. $\frac{2}{6} + \frac{3}{6} =$
3. $\frac{4}{7} + \frac{1}{7} =$
4. $\frac{6}{9} + \frac{5}{9} =$
5. $\frac{7}{10} + \frac{5}{10} =$
6. $\frac{3}{4} + \frac{3}{4} + \frac{3}{4} =$
7. $\frac{2}{3} + \frac{1}{3} + \frac{2}{3} =$
8. $2\frac{4}{5} + \frac{3}{5} =$

Answers

Decimal Numbers

Ordering Decimal Numbers (tenths)

0, 0.1, 0.2, 0.3, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1

Decimal Numbers - Making 1 (tenths)



Complement of 1

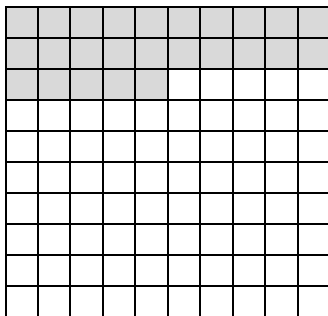
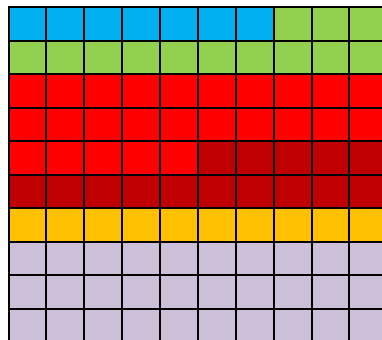
$0.3 + 0.7 = 1$ $0.6 + 0.4 = 1$ $0.2 + 0.8 = 1$ $0.5 + 0.5 = 1$

How many more to make...?

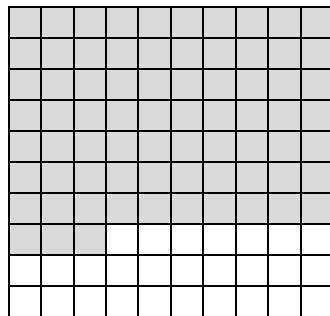
$0.7 + 0.3 = 1$ $1.3 + 0.7 = 2$ $1.9 + 0.1 = 2$ $3.4 + 0.6 = 4$ $4.8 + 0.2 = 5$ $7.2 + 0.8 = 8$ $12.7 + 0.3 = 13$ $49.5 + 0.5 = 50$

$7.1 + 0.9 = 8$ $5.5 + 0.5 = 6$ $15.4 + 0.6 = 16$ $4.7 + 0.3 = 5$ $8.7 + 5.3 = 14$ $16.2 + 8.8 = 25$ $20.8 + 11.2 = 32$
 $7.9 + 3.1 = 11$ $32.5 + 22.5 = 55$ $76.9 + 7.1 = 84$ $44.4 + 43.6 = 88$ $56.2 + 9.8 = 66$

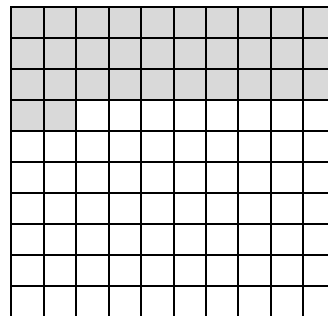
Decimal Numbers - Making 1 (hundredths)



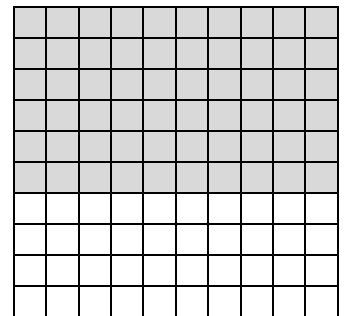
0.25 0.75



0.73 0.27



0.32 0.68



0.6 0.4

Decimal Numbers - Complements of 1

How many more to make 1?

$0.25 + 0.75 = 1$ $0.75 + 0.25 = 1$ $0.64 + 0.36 = 1$ $0.52 + 0.48 = 1$ $0.13 + 0.87 = 1$ $0.81 + 0.19 = 1$ $0.4 + 0.6 = 1$
 $0.09 + 0.91 = 1$

How many more to make...?

$0.76 + 0.24 = 1$ $1.35 + 0.65 = 2$ $1.45 + 0.55 = 2$ $6.82 + 0.18 = 7$ $5.33 + 0.66 = 6$ $7.19 + 0.81 = 8$ $3.33 + 0.67 = 4$
 $6.74 + 0.26 = 7$ $12.43 + 0.57 = 13$ $5.59 + 4.41 = 10$ $17.75 + 2.25 = 20$ $32.85 + 12.15 = 45$ $67.08 + 7.92 = 75$
 $45.99 + 13.01 = 59$ $108.43 + 41.57 = 150$

Ordering Decimal Numbers (Tenths/Hundredths)

0.05, 0.1, 0.17, 0.2, 0.34, 0.38, 0.45, 0.52, 0.62, 0.69, 0.7, 0.79, 0.85, 0.91, 0.94

Ordering Decimal Numbers 1

1) Missing numbers: a) 4.23, 4.24, 4.27, 4.29 b) 6.72, 6.74, 6.76, 6.77, 6.79 c) 2.51, 2.52, 2.56, 2.57, 2.58, 2.59