

Name:

Fractions,

Percentages and

Decimals

Additional Tasks





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Quiz 1



$2 \times 7 =$	$6 \times 5 =$	$9 \times 3 =$	$24 \div 4 =$	$11 \times 8 =$
$3 \times 5 =$	$45 \div 5 =$	$7 \times 7 =$	$8 \times 4 =$	$12 \times 3 =$
$8 \times 7 =$	$10 \times 6 =$	$1 \times 15 =$	$5 \times 4 =$	$44 \div 4 =$
$72 \div 8 =$	$7 \times 9 =$	$15 \times 4 =$	$2 \times 0 =$	$7 \times 6 =$
$9 \times 12 =$	$2 \times 26 =$	$7 \div 2 =$	$5 \times 8 =$	$9 \times 9 =$

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Example 1



Calculate $\frac{3}{5} + \frac{7}{15}$. Write your answer as a mixed number.

$$\frac{3}{5} + \frac{7}{15} = \frac{9}{15} + \frac{7}{15}$$

$$= \frac{16}{15}$$

$$= 1 \frac{1}{15}$$

The traditional method

Answer:

$$\frac{80}{75} \div 5 \rightarrow \frac{16}{15}$$

$$= 1 \frac{1}{15}$$

The peanut method



Quiz 2



1) $24 + 395$

2) 2.4×10

3) 10% of £54

4) $1 - \frac{1}{3}$

5) $3 \div 0.5$

6) $\frac{4}{5} \times \frac{1}{2}$

7) $\frac{3}{7}$ of £28

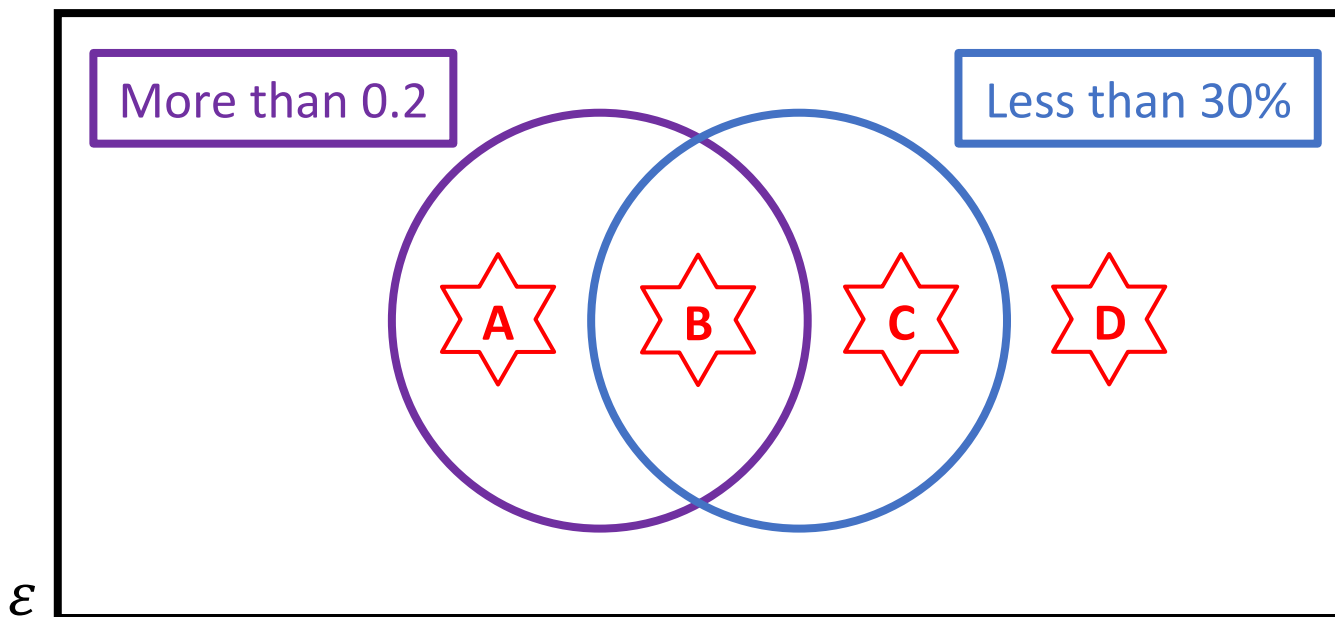
8) 0.1×0.5

9) $4 - 2.46$

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Venn Diagram Challenge 1



Think of a fraction that could fit into each region.
If you think a region is impossible to fill, explain why!











Example 2



Without a calculator, calculate 64% of £76.

10%
1%

$$\begin{aligned} \pounds 76 \div 10 &= \pounds 7.60 \\ \pounds 7.60 \div 10 &= \pounds 0.76 \end{aligned}$$

60%

7.60

x

6

£ 45.60

3

4%

0.76

x

4

£ 3.04

3

2

64%

45.60

+

3.04

£ 48.64



Quiz 3



1) $\frac{2}{9} + \frac{5}{9}$

2) 34×8

3) 10% of £145

4) 0.6×0.2

5) 0.026×100

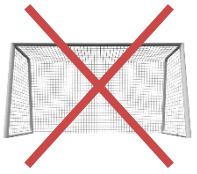
6) $360 \div 24$

7) $\frac{6}{11}$ of £88

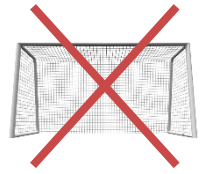
8) $5 \div 0.25$

9) $\frac{5}{6} - \frac{1}{3}$

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Ffion's Bags



Ffion buys 60 bags to sell on a stall in a market.

She pays £3 per bag.

She sells $\frac{1}{2}$ of the bags for £5 each.

She sells $\frac{1}{3}$ of the bags for £4 each.

What can you calculate from this information?





Example 3



Calculate $\frac{4}{5} \div \frac{2}{7}$. Write your answer as a mixed number.

$$\frac{4}{5} \div \frac{2}{7} = \frac{4}{5} \times \frac{7}{2}$$

$$= \frac{28}{10}$$

$$= \frac{14}{5}$$

$$= 2 \frac{4}{5}$$

Change to a multiplication sum and take the reciprocal of the 2nd fraction

$\div 2$

Change to a mixed number



Quiz 4



1) 43×57

2) 54.8×100

3) $\frac{7}{8} - \frac{3}{8}$

4) $4.2 - 2.18$

5) $\frac{2}{3} \times \frac{1}{4}$

6) $21 + 4298$

7) $1 - \frac{4}{13}$

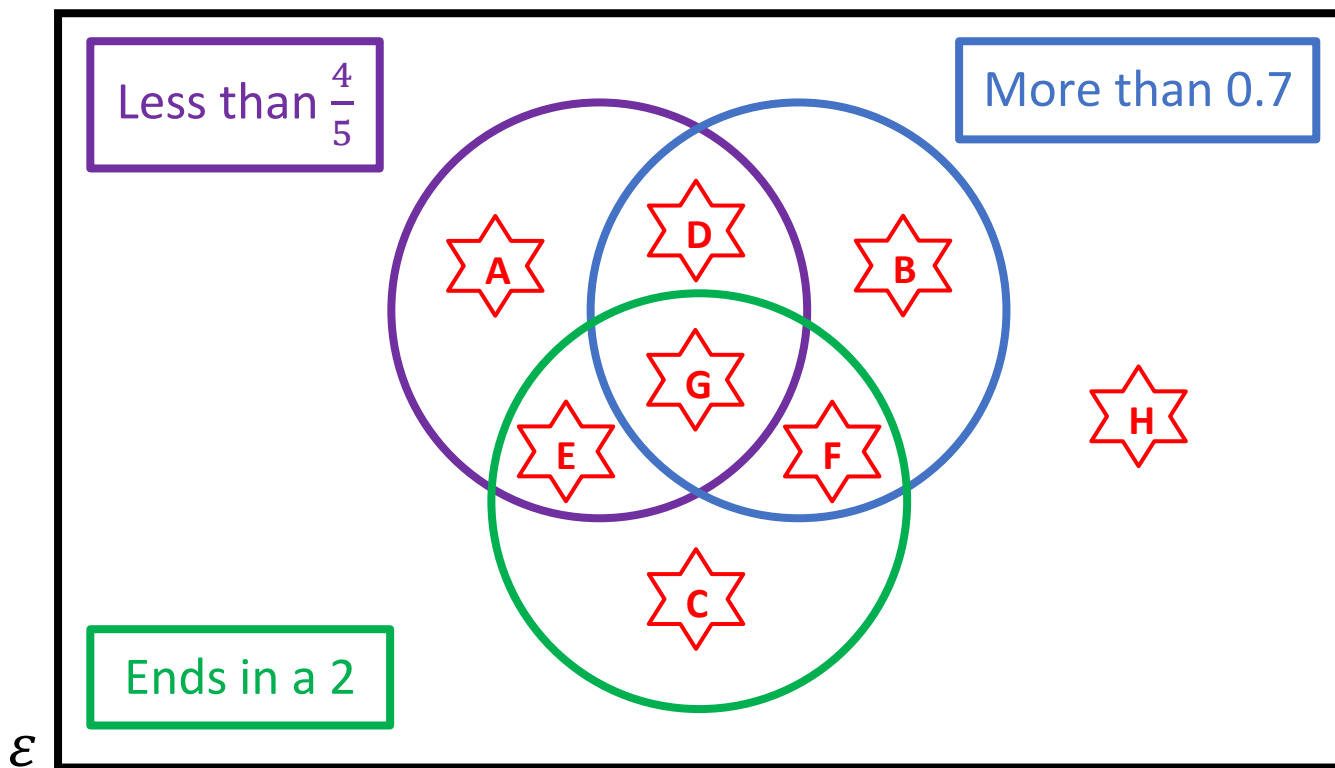
8) $2 \div 0.5$

9) 3.45×6

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Venn Diagram Challenge 2



Think of a percentage that could fit into each region.
If you think a region is impossible to fill, explain why!

★ A		★ E	
★ B		★ F	
★ C		★ G	
★ D		★ H	



Example 4



Calculate $434 \div 27$.

Multiples of 27: 27, 54, 81, 108, 135,
162, 189, 216, 243, 270.

Method ①: Short Division $016r2$

$$27 \overline{) 434}$$

Method ②: Long Division

1	0	27	$\overline{) 434}$
		- 270	3 4
			164
6			162
16			2

Answer: $16r2$



Quiz 5



1) Change 24% to be a decimal.

2) Change 24% to be a fraction.

3) Change 0.04 to be a percentage.

4) Change 0.04 to be a fraction.

5) Change $\frac{14}{25}$ to be a decimal.

6) Change $\frac{14}{25}$ to be a percentage.

7) Write 0.8777 ... using dot notation.

8) Write 2.3656565 ... using dot notation.

9) Write 0.32865865865 ... using dot notation.

___ out of 9



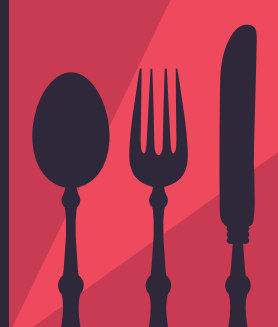
The Restaurant Voucher



1) Before using the voucher the bill was £34. How much needs to be paid after using the voucher?

2) After using the voucher the bill was £34. What was the original bill?

VOUCHER
15% off



3) After using the voucher, what fraction of the original bill must be paid? Give your answer in its simplest form.

4) After using the voucher, I divide the bill between myself and three friends. What fraction of the original bill do I pay?

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Evaluating the Workbook



Notes

