## Another code competition

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Percentages: fractions, decimals

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Kitbits Company sent out this Trial Card to those wishing to try their second Code Competition.



- 1 Change each fraction to
  - 3 20 20 20
- 41 7 50 25

(a) a decimal

(b) a percentage.

- 2 Change each decimal to 0.37 0.58 0.3
  - to (a) a fraction 0.8 0.07
- (b) a percentage.
- 3 Change each percentage to
- (a) a decimal
- (b) a fraction.

63%

20%

24%

6%

1%

4	3 4	-	А
	1/2		K

18%	>	В
0.15	>	N

40%	<b>→</b>	G
0.06	>	S

To enter the prize draw decode the message correctly.

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0.4	<u>5</u>	75%	3 20	22%

	0.18	0.75	<u>11</u> 50	0.05	50%
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	5%	->		
	0.22	2 ->	T	7. 1
,		W		M
	0.5	1 20	22 100	6%

- Of the people who decoded the message correctly in the competition, 0.34 were adults,  $\frac{9}{25}$  were girls and the rest were boys.
  - (a) What percentage of the correct messages were sent by boys?
  - (b) Did more boys or more girls send correct messages?
- 6 The table shows the fraction of the correct messages sent from England, Scotland and Northern Ireland in each of four weeks.

Country	Week 1	Week 2	Week 3	Week 4
England	0.63	0.6	0.56	0.7
Scotland	<u>9</u> 50	23 100	<u>6</u> 25	3 70
Northern Ireland	19%	100		20

- (a) Copy and complete the table, writing every fraction as a percentage.
- (b) In which weeks did more correct messages come from Scotland than Northern Ireland?