Kitbits competition

50

Percentages fractions, decimals

. In	D	_											
-	5%	→	1	0.06	→	W	10%	\rightarrow	Н	$\frac{7}{50}$	\rightarrow	CZ	Win a Spykit, Z
Name of the Owner, where the Owner, which is the Owner, where the Owner, which is the Owner, whi	0.15	→	N	21 100	→	D	0.22	→	Т	<u>6</u> 25			Technokit, or Mystery kit
Consideration of the Constitution of the Const	0.42	→	U	1/2	→	K	$\frac{3}{4}$	→	А	0.8	->	0	

1 (a) Decode the message. You will have to think of each fraction in another way.

Message [6%	1/10	5 100	14%	0.1	50%	1/20	22%	0.21	80%			
	24%	4 5	42%	<u>6</u> 100	0.75	15%	11 50	22 100	8 10	3 50	0.05	3 20	

- (b) Reply to the message but not in code.
- 2 Of the people who entered the competition, 0.4 were girls, $\frac{9}{20}$ were boys and the rest were adults.
 - (a) Did more boys or girls enter?
 - (b) What percentage of entrants were adults?
- 3 The table shows the fraction of all the winners who chose each kit as a prize.

Kit chosen	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6
Spykit	0.04	0.07	0.11	0.19	0.28	0.36
Technokit	7 25	<u>6</u> 20	1/4	11 50	2 10	4 25
Mystery kit	68%					

- (a) Copy and complete the table writing every fraction as a percentage.
- (b) In which weeks did more winners choose Spykits than Technokits?
- (c) In which week was the total number of Technokits and Spykits chosen greater than the Mystery kits?
- 4 There were 2000 winners altogether.
 One half of the winners lived in England,
 10% lived in Northern Ireland,
 one quarter of the remaining winners lived in Wales
 and the rest in Scotland.
 - (a) What percentage of the winners lived in Wales?
 - (b) How many winners lived in Scotland?

