a) Morgan is playing a computer game.						b) Morgan is playing a computer game.						
They can score 0, 1, 2 or 3 points on each turn.					They can score 0, 1, 2 or 3 points on each turn.							
They record their scores for 100 turns.						They record their scores for 100 turns.						
The table shows the relati	ve frequenci	es of their	scores.		The	table shows the relat	ive frequenc	ies of their	scores.			
Score	0	1	2	3		Score	0	1	2	3		
Relative Frequency	0.08	0.42	0.38			Relative Frequency	0.06	0.38	0.42			
Morgan says "I scored mo Is Morgan correct?	e than 160	points in t	otal in my	100 turns."		gan says "I scored mo organ correct?	ore than 160	points in t	otal in my	100 turns."		
What is the missing relative frequency?	Sum of relative frequencies = $1$ 1 - (0.08 + 0.42 + 0.38) = 0.12					nat is the missing ative frequency?	Sum of relative frequencies $= 1$ 1 - (0.06 + 0.38 + 0.42) = 0.14					
How many points did Morgan score?	$0 \text{ points}$ $0.08 \times 100 = 8 \text{ turns}$ $8 \times 0 \text{ points} = 0 \text{ points}$ $1 \text{ point}$ $0.42 \times 100 = 42 \text{ turns}$ $42 \times 1 \text{ point} = 42 \text{ points}$ $2 \text{ points}$ $0.38 \times 100 = 38 \text{ turns}$ $38 \times 2 \text{ points} = 76 \text{ points}$ $3 \text{ points}$ $0.12 \times 100 = 12 \text{ turns}$ $12 \times 3 \text{ points} = 36 \text{ points}$ $0 + 42 + 76 + 36 = 154$				How many points did Morgan score? $0 \text{ points} \\ 0.06 \times 100 = 6 \text{ turns} \\ 6 \times 0 \text{ points} = 0 \text{ points} \\ 1 \text{ point} \\ 0.38 \times 100 = 38 \text{ turns} \\ 38 \times 1 \text{ point} = 38 \text{ points} \\ 2 \text{ points} \\ 0.42 \times 100 = 42 \text{ turns} \\ 42 \times 2 \text{ points} = 84 \text{ points} \\ 42 \times 2  poin$					s s ts		
Is Morgan correct?	Morgan is not correct.				Is	Morgan correct?						

## **BACKWARD FADED MATHS**

c) Morgan is playing a computer game. They can score 1, 2, 3 or 5 points on each turn. They record their scores for 100 turns. The table shows the relative frequencies of their scores.					The The	d) Morgan is playing a computer game. They can score 0, 1, 2 or 3 points on each turn. They record their scores for 300 turns. The table shows the relative frequencies of their scores.					
Score	1	2	3	5		Score	0	1	2	3	
<b>Relative Frequency</b>	0.08	0.4	0.38			<b>Relative Frequency</b>	0.11	0.35	0.34		
Morgan says "I scored mo Is Morgan correct? What is the missing relative frequency? How many points did Morgan score?	Sum c	of relative	total in my frequencie (+ 0.38) =	es = 1		rgan says "I scored more lorgan correct?	than 600	points in t	otal in my	300 turns."	
Is Morgan correct?											
			BAC	WAR		DED MATHS					