		1			
a) A student has a spin	ner with sectors	b) A student has a spin	ner with sectors		
numbered 1, 2, 3 and 4.		numbered 1, 2, 3 and 4.			
		(Diagram not drawn a	ccurately)		
The table shows the pr	obability of each score:	The table shows the pr	robability of each score:		
Score 1		Score 1	$2  3  4 \qquad \qquad$		
Probability 0.4		Probability 0.5			
1105ublinty 011					
The student spins the	sninner twice	The student spins the s	sninner twice		
Calculate the probabili	ty that the student gets the same score on each	Calculate the probability that the student gets the same score on each			
calculate the probability that the student gets the same score on each		calculate the probability that the student gets the same score on each			
spin.		spin.			
What is the	To calculate the probability of scoring a 1	What is the	To calculate the probability of scoring a 1		
what is the	followed by a 1, we multiply the probability of	what is the	followed by a 1, we multiply the probability of		
student spins a 1	scoring a 1 by the probability of scoring a 1.	student spins a 1	scoring a 1 by the probability of scoring a 1.		
followed by a 12		followed by a 12			
Ionowed by a 1?	$0.4 \times 0.4 = 0.16$	Ionowed by a 1?	$0.5 \times 0.5 = 0.25$		
What is the	$P(2,2) = 0.2 \times 0.2 = 0.00$	What is the	$P(2 2) = 0.2 \times 0.2 = 0.00$		
what is the	$P(2,2) = 0.3 \times 0.3 = 0.09$	what is the	$P(2,2) = 0.3 \times 0.3 = 0.09$		
probability of		probability of	$D(2,2) = 0.1 \times 0.1 = 0.01$		
spinning a 2 and 2?	$P(3,3) = 0.2 \times 0.2 = 0.04$	spinning a 2 and 2?	$P(3,3) = 0.1 \times 0.1 = 0.01$		
Or a 3 and a 3?		Or a 3 and a 3?	$\mathbf{P}(1,1) = 0,1 + 0,1 = 0,0,1$		
•••	$P(4,4) = 0.1 \times 0.1 = 0.01$		$P(4,4) = 0.1 \times 0.1 = 0.01$		
TA7] . · .]		XA71 / 1			
what is the		What is the			
probability of	0.16 + 0.09 + 0.04 + 0.01 = 0.3	probability of			
spinning the same		spinning the same			
score on each spin?		score on each spin?			
			6		
	BACKWARD				

c) A student has a spinner with sectors numbered 1, 2, 3 and 4.(Diagram not drawn accurately)

The table shows the probability of each score:

Score	1	2	3	4	
Probability	0.2	0.6	0.05	0.15	

The student spins the spinner twice.

Calculate the probability that the student gets the same score on each spin.

What is the probability that the student spins a 1 followed by a 1?	To calculate the probability of scoring a 1 followed by a 1, we multiply the probability of scoring a 1 by the probability of scoring a 1. $0.2 \times 0.2 = 0.04$		
What is the probability of spinning a 2 and 2? Or a 3 and a 3? 			
What is the probability of spinning the same score on each spin?			

d) A student has a spinner with sectors numbered 1, 2, 3 and 4.(Diagram not drawn accurately)

The table shows the probability of each score:

Score	1	2	3	4
Probability	0.42	0.25	0.19	0.14

The student spins the spinner twice.

Calculate the probability that the student gets the same score on each spin.

## 

## **BACKWARD FADED MATHS**

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3

1