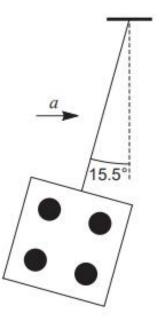
Question 3 (4 marks)

A 370 g single fluffy die on a string is hanging from a baby carriage travelling on a Melbourne tram. The tram accelerates away from the tram stop. At the point of acceleration, the angle between the string and the vertical is 15.5°. Calculate the magnitude of the acceleration of the tram.



Anguage	m n-7
Answer:	m s-2