

Question number	Answer	Mark
2	<p>Any SIX from:</p> <p>Measure the background count (rate) (1)</p> <p>Ensure the source and detector are in line (1)</p> <p>Use a metre rule to measure d (1)</p> <p>Measure the count (rate) several times and calculate a mean Or (1) measure the count (rate) over a long time</p> <p>Subtract the background count (rate) (1)</p> <p>Repeat for values of values of d up to 50 mm Or repeat until the count rate reaches the background count (rate) (1)</p> <p>Plot a graph of (corrected) count (rate) vs d (1)</p> <p>Sensible comment on safety based on distance, shielding or time (1)</p>	6
Total mark for Question 2 = 6		