

Year 11 Higher Revision Homework 1

Questions that you can use a calculator for are indicated by a ☺

1	Expand and Simplify $(2x + 3)(x - 3)$ Expanding brackets	$(2x+3)(x-3)$ $2x^2+3x-3x+0$ $2x+0$ $2x$ A 2 marks
2	A bag contains 5 red sweets and 3 blue sweets. A sweet is picked at random from the bag and not replaced. Another is then picked at random. What is the probability that the sweets will be the same colour? Conditional probability	Red 0.5 of 0.8 Blue 0.3 of 0.8 IF Blue - Red 0.5 of 0.7 Blue 0.2 of 0.7 IF Red Red 0.4 of 0.7 Blue 0.3 of 0.7 Red - 0.9 out of 1.5 Blue - 0.5 out of 1.5 1.4 of 1.5 chance of getting the same colour twice. A 2 marks
3	Evaluate $64^{-\frac{1}{2}}$ Fractional indices	$64^{-1/2}$ 0.0078125 → 0.08 A