🖀 ExamNinja

1	Amelia is thinking of a mathematical expression. When she substitutes <i>a</i> = 5 and <i>b</i> = 2 into her expression, the result is 40.						
	Which of the follow						
	A 4ab	B 8a + 4b	C b ² + 18	D a ² - ab	1		
					-		
2	A shape on a coordinate grid is reflected in the <i>x</i> -axis and then translated two units to the right and five units down.						
	If the original shape had a point at coordinates (<i>a</i> , <i>b</i>), what are the coordinates of the corresponding patter the transformations?						
	A (<i>a</i> + 2, − <i>b</i> − 5)	B (<i>a</i> – 2, <i>b</i> + 5)	C (- <i>a</i> + 2, <i>b</i> - 5	5) D (<i>a</i> + 2, <i>b</i> – 5)	1		
					-		
3	A local bakery is making a large batch of cupcakes for a school fundraiser. The recipe requires 0.125 kg of flour per cupcake.						
	If the bakery needs	to make 200 cupcakes, h	ow many kilograms of flo	ur will they need in total?			
	A 2.5	B 12.5	C 25	D 250	1		
4	In a science experiment, a solution was created by mixing 0.75 litres of a chemical with water.						
	If the total volume of	If the total volume of the solution was 7.5 litres, how many times was the chemical diluted?					
	A 100	B 1000	C 10	D 10 000	1		
5	Sarah has been saving up her pocket money for a while and has managed to accumulate £183.75.						
	She decides to trea book.	rs, £22.50 on a top, and £15.80 on a					
	After her shopping spree, how much money does Sarah have remaining?						
	A £107.46	B £68.17	C £91.66	D £145.45	1		

6	Amir's local football club is trying to purchase new equipment.								
	Amir donates £57.80 towards the cause. The football club manages to raise 50 times the amount Amir donated.								
	What is the total amount raised by Amir's football club?								
	A £2 890	B £289	C £5 780	D £28 900	1				
7	A factory production line produces 24 cars per day and there are 20 production lines in the factory.								
	The company owns 5 of these factories across the country. What is the maximum number of cars that could be produced by the company in a day?								
	A 2400	B 480	C 120	D 24 000	1				
8	A school has 525 students in total across three year groups. There are 185 students in Year 7 and 165 students in Year 8.								
	How many students are there in Year 9?								
	A 175	B 155	C 195	D 135	1				
9	Amelia is saving up to buy a new bicycle.								
	eds: 5(<i>x</i> + 23).								
	How much money does A	Amelia currently have s	aved?						
	A £17	B £63	C £85	D £177	1				
10	A chef begins preparing a meal at 9:15 am. He spends 24 minutes chopping vegetables, followed by 48 minutes cooking the main dish.								
	After a 12-minute break, he spends 30 minutes preparing the dessert. He then leaves to deliver the meal to a customer. At what time does the chef leave to deliver the meal?								
	A 10:57 am	B 11:09 am	C 10:39 am	D 11:21 am	1				