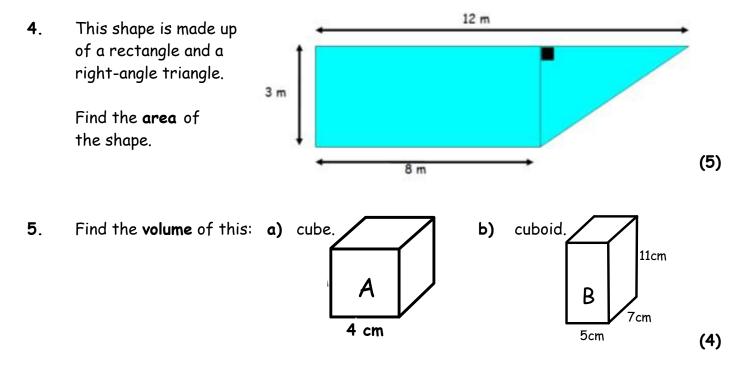
Intermediate 1 - Unit 1 - Practice NAB 3

Outcome 1

1.	Janet and Neil go out for a meal. The meal costs £35.60 but there is a 5% tip (service charge). Calculate how much the tip was.	(2)
2.	VAT is 17.5%. Calculate how much VAT would be paid on a Blu-ray player that costs £399.50. Give your answer to the nearest penny.	(3)
3.	 a) A car travels 69 miles in one hour. How far will it travel in 3 hours? Round your answer to the nearest 10 miles. 	(3)
	b) Linda counts her heart beat. It beats 16 times in 10 seconds. How many times would it beat in 1 minute?	(2)

Outcome 2



- 6. Find the circumference of a circle with a diameter of 21cm. (2)
- 7. A circular plate has a radius of 95cm. Calculate the area of the plate. (2)

Outcome 3

- 8. Evaluate 7x 3y when x = 3 and y = 5
- 9. The advert below shows the cost of hiring a car.



How much does it cost to rent the car for 5 days if the number of miles driven is 310? (4)

10. R = 4pt is a formula. Evaluate R when p = 10 and t = 3.

Outcome 4

Mr Young gets paid a basic rate of £8.10 per hour.
 Overtime is paid at time and a half.

If he works for 26 hours overtime, how much will Mr Young earn? (4)

- 12. David wants to buy a Dishwasher on a hire purchase scheme.The deposit is £20 and there are 12 monthly instalments of £11.50.How much does he pay in total for the Dishwasher?
- 13. A family is going to Florida. They change £840 to Dollars. How many Dollars will she get?
 I buys
 USA
 I.85 dollars
 Spain
 I.48 Euros
 Zambia
 8000 Kwatcha

(2)

(3)

Intermediate 1 - Unit 1 - Practice NAB 3 - Solutions

Outcome 1 - Basic Calculations.			You need 7 out of 10 to pass.		
1.	5 ÷ 100 = 0.05		2.	17.5 ÷ 100 = 0.175	
	0.05 x 35.60 = 1.78			0.175 x 399.50 = 69.913 to 3 decimal place	
	Tip was £1.78			VAT = £69.91 to the nearest penny	
3a)	1 hour:	69 miles	b)	10 seconds	16 beats
	3 hours:	69 x 3 = 207 miles		60 seconds	16 x 6 = 96 beats
	Distance tra the nearest	velled: 210 miles rounded to 10 miles.	(1 minute)		

Outcome 2 - Geometry Properties			You need 9 out of 13 to pass.
4.	Area of rectangle: I x b = 8 x 3 = 24 m^2		
	Area of triangle = b x h \div 2 = 3 x 4 \div 2 = 6 m ²		
	Total Area = $24 + 6 = 30 \text{ m}^2$		
5a)	Volume = $1 x b x h = 4 x 4 x 4 = 64 cm^3$	b)	Volume = I x b x h = 5 x 7 x 11 = 385cm ³
6.	C = ∏D = 3.14 x 21 = 65.94 cm	7.	Area = $\prod r^2$ = 3.14 x 95 ² = 3.14 x 95 x 95 = 28338.5 cm ²

Outc	ome 3 - Expressions/Formulae	You need 6 out of 8 to pass.	
8.	(7 x 3) – (3 x 5) = 21 – 15 = 6	9.	Hire = $18 \times 5 = \pounds90$ Miles = $310 \times 7 = 2170$ pence = $\pounds21.70$
			$Total = \pounds90.00 + \pounds21.70 = \pounds111.70$
10.	R = 4pt = 4 x10 x 3 = 120		

Outcome 4 - Everyday Calculations			Calculations	You need 7 out of 10 to pass.
11.	Hourly rate: Time and half:		£8.10 £8.10 x 1.5 = £12.15	
	26 hours ove	rtime	£12.15 x 26 = £315.90	
12.	2. Deposit: £25.00 Instalments: £11.50 x 12 = £138.00			
	Total:	£25.0	00 + £138.00 = £163.00	
13.	£ 1 840	\$ 1.85 840 x	< 1.85 = \$1554	
	So £840 wou	ıld buy	\$1554	