

Intermediate 1 - Unit 1 - Practice NAB 1

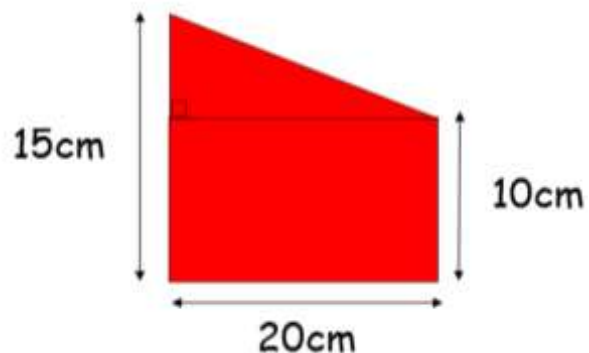
Outcome 1

1. Janet and Neil go out for a meal.
The meal costs £56.50 but there is a 6% tip (service charge).
Calculate how much the tip was. (2)
2. VAT is 17.5%. Calculate how much VAT would be paid on a TV that costs £359.99. Give your answer to the nearest penny. (3)
3. a) A car travels 44 miles in one hour on the motorway. How far will it travel in 3 hours? Round your answer to the nearest 10 miles. (3)
b) A patient counts her heartbeat. It beats 18 beats in 15 seconds.
How many beats is this per minute? (2)

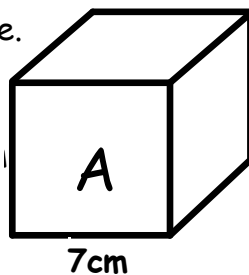
Outcome 2

4. This shape is made up of a rectangle and a right-angle triangle.

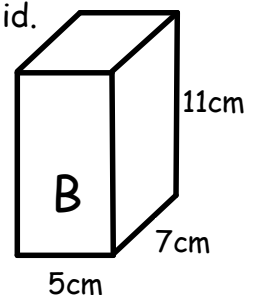
Find the **area** of the shape.



5. Find the **volume** of this: a) cube.



- b) cuboid.



6. Find the **circumference** of a circle with a diameter of 12cm. (2)
7. A circular plate has a radius of 7cm. Calculate the **area** of the plate. (2)

Outcome 3

8. Evaluate $4a - 3b$ when $a = 7$ and $b = 4$ (2)

9. The advert below shows the cost of hiring a car.

<p style="text-align: center;">Rent-4-Cheap £25 per day plus 12 pence per mile</p>

How much does it cost to rent the car for 4 days if the number of miles driven is 350? (4)

10. $V = IR$ is a formula used in science. Evaluate V when $I = 21$ and $R = 8$. (2)

Outcome 4

11. Aly is a doctor, she gets paid £42.20 per hour.
If she works a Sunday she gets **time and a half**.

If she works for 8 hours on a Sunday, how much will she earn? (4)

12. Bill wants to buy a washing machine on a hire purchase scheme.
The **deposit** is £80 and there are **9 monthly** instalments of £18.50.
How much does he pay in total? (3)

13. Jenna is going to Barcelona.
She changes £350 into Euros.
How many Euros will she get?

Foreign Exchange	
£ 1 buys	
USA	1.85 dollars
Spain	1.48 Euros
Zambia	8000 Kwacha

(3)

Outcome 4 - Everyday Calculations**You need 7 out of 10 to pass.**

11. Hourly rate: £42.20
Time and half: $£42.20 \times 1.5 = £63.30$

8 hours on Sunday $£63.30 \times 8 = £506.40$

12. Deposit: £80.00
Instalments: $£18.50 \times 9 = £166.50$

Total: $£80.00 + £166.50 = £246.50$

13. £ €
 1 1.48
 350 $350 \times 1.48 = €518$

So £350 would buy €518.