

Intermediate 1 - Unit 1 - Practice NAB 2

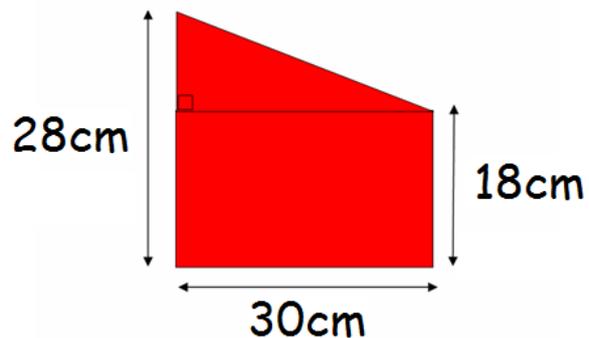
Outcome 1

1. Janet and Neil go out for a meal.
The meal costs £25.68 but there is a 7% tip (service charge).
Calculate how much the tip was. (2)
2. VAT is 17.5%. Calculate how much VAT would be paid on a Washing Machine that costs £429.59. Give your answer to the nearest penny. (3)
3. a) A plane flies 743 miles in one hour. How far will it fly in 6 hours? Round your answer to the nearest 10 miles. (3)
b) Lesley is skipping. She can do 11 jumps in 15 seconds.
How many jumps can she do in a minute? (2)

Outcome 2

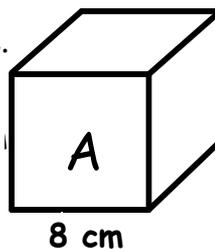
4. This shape is made up of a rectangle and a right-angle triangle.

Find the **area** of the shape.

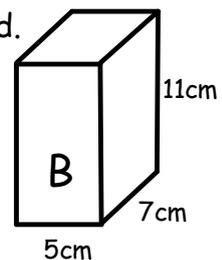


(5)

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



- b) cuboid.



(4)

6. Find the **circumference** of a circle with a diameter of 22cm. (2)
7. A circular plate has a radius of 9cm. Calculate the **area** of the plate. (2)

Outcome 3

8. Evaluate $8a - 3b$ when $a = 4$ and $b = 5$ (2)

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

Rent-4-Cheap £30 per day plus 6 pence per mile
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How much does it cost to rent the car for 4 days if the number of miles driven is 290? (4)

10. $P = cg$ is a formula. Evaluate P when $c = 45$ and $g = 7$. (2)

Outcome 4

11. Mr Clark gets paid a basic rate of £6.30 per hour.
Overtime is paid at **time and a half**.

If he works for 28 hours overtime, how much will Mr Clark earn? (4)

12. David wants to buy a TV on a hire purchase scheme.
The **deposit** is £50 and there are **12 monthly** instalments of £18.40.
How much does he pay in total for the TV? (3)

13. A family is going to Spain.
They change £650 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: £6.30
Time and half: $£6.30 \times 1.5 = £9.45$

28 hours overtime $£9.45 \times 28 = £264.60$

12. Deposit: £50.00
Instalments: $£18.40 \times 12 = £220.80$

Total: $£50.00 + £220.80 = £270.80$

13. £ €
 1 1.48
 650 $650 \times 1.48 = €962$

So £650 would buy €962