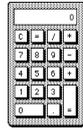


NAB 1 - (Practice)



Outcome 1 - Perform Basic Calculations

1. Anne and Simon go for a meal. The cost of the meal is £36.50.
There is also a 6% service charge.
Calculate the service charge. (2)

2. Calculate the amount of VAT (at 17.5%) which will be paid on a washing machine, priced £349.99. (to the nearest 1p). (3)

3. a A van travels 53 miles in one hour on a motorway.
How far will it travel in 5 hours at the same rate.
(Round your answer to the nearest 10 miles). (3)



- b A patient counts her heart beat.
It beats 21 times in 10 seconds.
How many beats is this per minute? (2)

required to pass - 7/10

Outcome 2 - Basic Geometry Properties

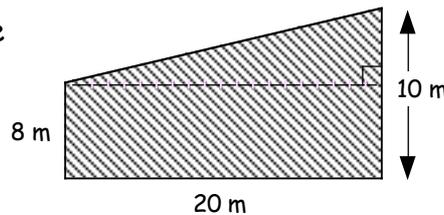
Circumference of a circle :-

$$C = \pi d$$

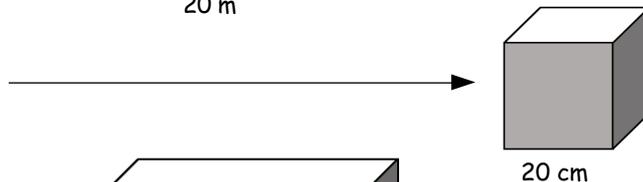
Area of a circle :-

$$A = \pi r^2$$

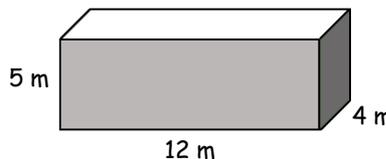
4. This shape consists of a rectangle and a right angled triangle.
Find the **area** of the shape. (5)



5. a Find the **volume** of this cube. (2)



- b Find the **volume** of this cuboid. (2)



6. Find the **circumference** of a circle with a diameter of 12 centimetres. (2)

7. A circular lawn has a radius of 25 metres.
Calculate the **area** of the lawn. (2)

required to pass - 9/13

Outcome 3 - Evaluate Expressions/Formulae

8. Evaluate $8a - 5b$ when $a = 6$ and $b = 4$.

(2)

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

How much does it cost to hire the car for 4 days if the number of miles driven is 190 ?

RENT-WITH-US
 31 pounds per day plus eight pence per mile



(4)

10. $F = Ma$ is a formula used in science.

Evaluate F when $M = 40$ and $a = 8$.

(2)

required to pass - $\frac{6}{8}$

Outcome 4 - Calculations in Everyday Context

11. Nick is paid a basic rate of £8.22 per hour. When he works night shift he is paid at **time and a half**.

How much is Nick paid for 8 hours on the night shift ?

(4)

12.



Find the cost of buying this television set.

(3)

13. Lara is going to Paris in France. She changes £550 into euros.



Foreign Exchange Rates

£1 buys

USA	1.95 dollars
France	1.46 euros
Denmark	11.232 kroner

How many euros will she get ?

(3)

required to pass - $\frac{7}{10}$