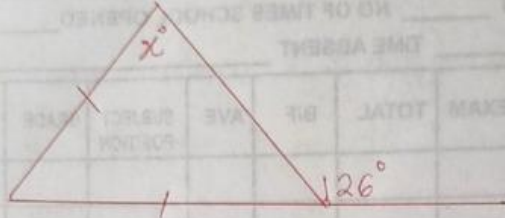


MATH

Review of work

- ① Find the value of x in the diagram below



$$x =$$

② If $25^{(2x+4)} = 5^{2x}$

$$x =$$

- ③ If $a = 5$, $b = 4$ and $c = 7$; Find the value of $\frac{2ab}{bc-ac}$

$$\text{Ans} =$$

- ④ Calculate the sum to infinity of a geometric progression if the first term is 5 and the common ratio is 0.5

$$S_{\infty} =$$

- ⑤ The bearing of $S35^{\circ}W$ can also be written as _____

⑥ Simplify $\left(\frac{3}{4} - \frac{2}{5}\right) \times \left(\frac{1}{2} \div \frac{4}{5}\right)$

$$\text{Ans} =$$

- ⑦ The population of a school is 900. If this ~~there~~ ~~is~~ is represented on a bar chart Find the sectorial angle of 45 students.

$$\text{Ans} =$$

8) If the curved surface area of a cylinder is 440cm^2 . If the height is 5cm . Find the radius.
 $r =$

9) The marks of 12 students in a math test are 7, 8, 12, 10, 5, 8, 7, 7, 11, 13, 15 and 7

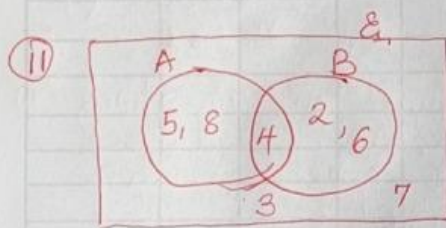
a. Find the mean (1 d.p.) =

b. Find the mode =

c. Find the range =

10) Express 0.01584 correct to 2 s.f

Ans =



Find $A' \cap B = \{ \quad \}$

12) Find the gradient of the line joining $(5, -4)$ and $(7, 2)$

$m =$

13) Find the equation of the line that pass through $(4, 3)$ and $(6, 11)$

$$y = \square x + \square$$

14) A variable x varies inversely as the cube of y . If $x = 3$ where $y = 2$. Find x when $y = \frac{1}{2}$

$x =$

15) What is the gradient of $8x + 4y - 12 = 0$

$$y = \square x + \square$$

16) Factorize $x^2 - x - 20$ Ans = () ()

17) Town A and B are located at point $(-4, 6)$ and $(4, 8)$. Find the distance between them correct to 1 d.p.

18) From a point M, a man moves 14km due west and then moves 9km due south. Calculate the distance from the starting point correct to 2 d.p.

Ans =

19) Given that $356 = 12x$ Find x

$x =$

20) Simplify $\sqrt{300} - \sqrt{27}$

Ans =