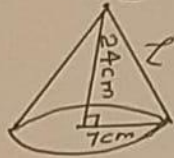


Assessment - (5)

- ① Solve. $\frac{x(x+2)}{6} = 4$
- ② Simplify. $\sqrt{48} + 2\sqrt{3}$
- ③ Find the L.C.M. of $2x^2y$, $3xy^2$
- ④ Find the curved surface area of the right circular cone.



- ⑤ Write in logarithmic form.
 $x^0 = 1$
- ⑥ The area of the given rhombus ABCD is 120 cm^2 . Find the perimeter of the rhombus.
- ⑦ If $\lg 5 = 0.6990$, find the value of $\lg 25$.
- ⑧ Factorise. $a^2 - b^2 + 1 - b^2 a^2$
- ⑨ Simplify. $\frac{x^2 - 2x + 1}{x^2 - x} \div \frac{(x-1)}{x}$

10 Find the value of x .

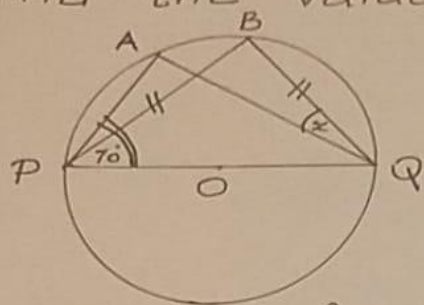
$$\log_x 64 = 3$$

11 If $a+b=6$, $ab=4$, find the value of a^2+b^2 .

12 Rationalise the denominator.

$$\frac{3}{5-\sqrt{2}}$$

13 Find the value of x .



$$\hat{APQ} = 70^\circ$$

14 Solve. $3^{(x-2)} = 26 + 3^0$

15 Remove brackets and simplify.

$$5 - 3(5 - x) - 4$$

16 Express $3\sqrt{11}$ as an entire surd.

17

Stem	Leaf
0	2 3
1	1 5
2	3 3
3	5 7 8
4	6 8

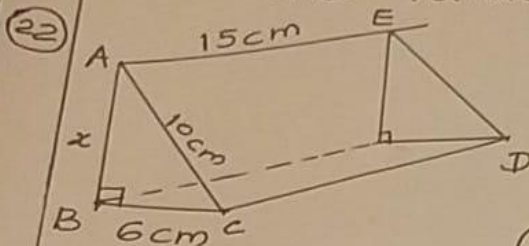
Find the
(i) range
(ii) mode
(iii) median

(18) Simplify. $5.7351 \div 4$

(19) Make 'R' the subject.
 $3xR + h^2 = yR$

(20) Express 10001_{two} as a decimal number.

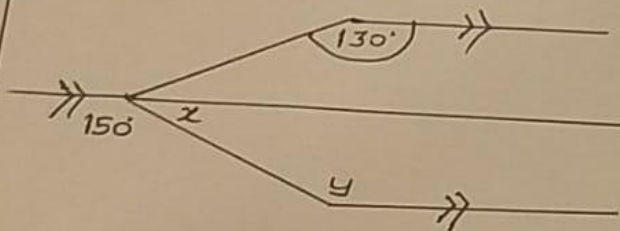
(21) If $\log_{10} 3 = 0.4771$, $\log_{10} 7 = 0.8451$, find the value of $\log_{10} \left(4\frac{2}{7}\right)$



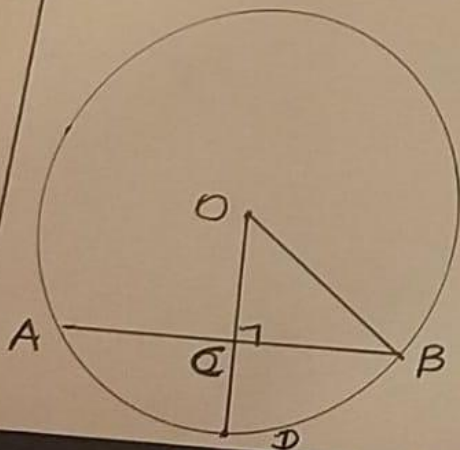
(i) Find the length of AB in the given prism.

(ii) Find the volume of the prism.

(23) Find the value of x and y .



(24)



In the given circle with centre O, $AB = 12\text{cm}$, $DC = 2\text{cm}$. Find the radius of it.

(25) Find the value.
 $\frac{3^{2y}}{3^{-y}} = 27$