## (SECTION - B)

A telephone company charges initially Rs.0.50 and then Rs. 0.11 for every minute. Write an (5) O. 6. (a) expression that gives the cost of a call that lasts N minutes.

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GENERAL KNOWLEDGE-I (GENERAL SCIENCE & ABILITY)

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Find the missing number in the series below (b)

(i) 1, 8, 4, 27, 9, ?

(ii) 3,6,8,16,18,?

(iii) 2, 8, 512, ?

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(5)

(5)(20)

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(c)

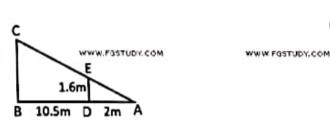
(iv) 81 ,9,64 ,8,?,12

(v) 6, 11, 21, 36, 56, ? www.fastupy.com

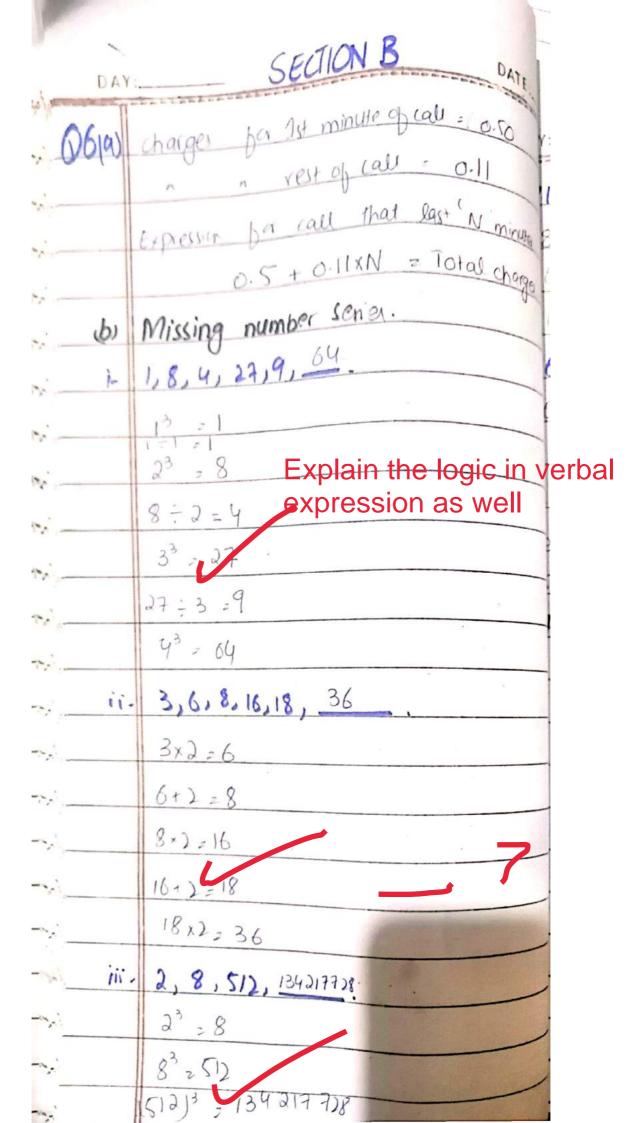
The perimeter of the rectangle given below is 114 cm. Find the area of the rectangle. (5)

> (3x-y) cm (2x-3) cm (2x+y) cm

Ahmad stands at point D, 2m in front of a (d) spotlight at point A. He is 1.6m tall and is JTUDY.COM facing the wall of a building which is 10.5m away from him. How tall (BC) is his shadow on the wall of the building.

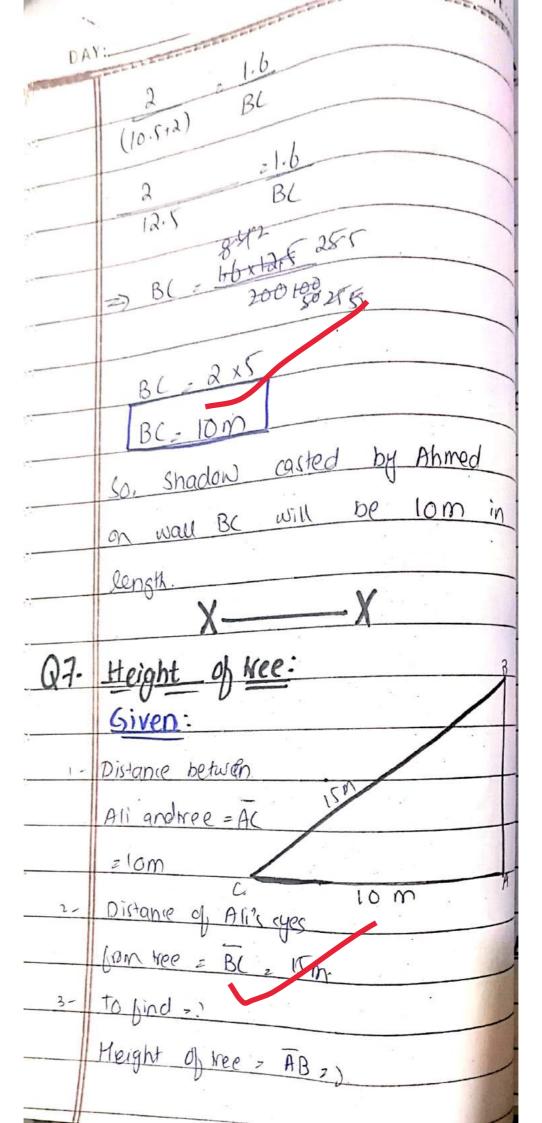


- Q. 7 (a) Ali is standing 10 meters away from a tree. The distance of his eyes from his feet is 1.5 (5)meter. Given that the distance from his eyes to the top of the tree is 15 meters, find the height of the tree.
  - Find out the correct word from the jumbled spellings given below. (5) LNUGEF, CKANS, CIREFE, EERAANMOGTP, MNIKPPU. " OSTUDICOM WWW.EGSTUDY.COM
    - Draw and write the total number of lines of symmetry in a regular hexagon and octagon. (c) (5) How many lines of symmetry are there in a circle?
    - The height of the Egyptian pyramid is 146.6 meters and a base length is 230.6 meters. Find (d) (5)(20)the volume of that pyramid. YOUTS



Perimeter of a rectangle is P = Q+ Q+ b+b 1144 = (18,126 1149 = 31 - 4 + 2x14 + C/1 - 6 114 = 91-6 => 9x = 6=114. 9x = 114-6 91 = 10/8/2 No 12. As we know that parallel side of a rectangle are equal hence 3x-y = 2x+y as n = 12 3112-y = 2x12+y 36-y= 24+y 36-24 2 4+4 12 = 24 3 y = 126 7

DATE:	100 pp 100 fp
Now, finding values of breadth and length.  Breadth = b = 2x - 3 2x12-3-24-3	
b. 21 cm	
lenght = l, = 3n-y = 3x12-6-36-6	
l, = 30 cm.	
lenght = lz = 2x +y = 2x12+6 = 2/4+6	
l2 = 30 cm	
60 li-li-li-li-30cm.	
Avea of Rectangle = lxb	
30×21	
Area. = 630 cm <sup>2</sup>	
LENGTH OF SHADOW:	
According to given	
andition, two mangle,	
IR DABL & DADE	ă.
are similar as per.	
Triangular morrem. So, their corresponding	8'
cides have an equal redici. i.p.	
$\frac{AD}{AB} = \frac{DE}{BC}$	
Now, putting values	



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According 10 Pythagovean Theorem.  (Hypotenuse) 2 (Base) 2 + (Perpendicular)	
(AB)2 = (AC)2 + (AB)2	
eunis values (15)2 = (10)2 + (AB)2	
$(\overline{AB})^2 = (15)^2 - (10)^2$ $(\overline{AB})^2 = 225 = 100$	
$(\overline{AB})^2 = 125$ Taking 'I on by sider. $(\overline{AB})^2 = 125$	
so height of the tree is 11.18 m.	
LOUGEF ENGULF CKANS SNACKS	
CIREFE EKRCE	
EERAAN MOGFA POMEGRANATÉ	
LINES OF SYMMETRY.	

## Good answers overall!!

