

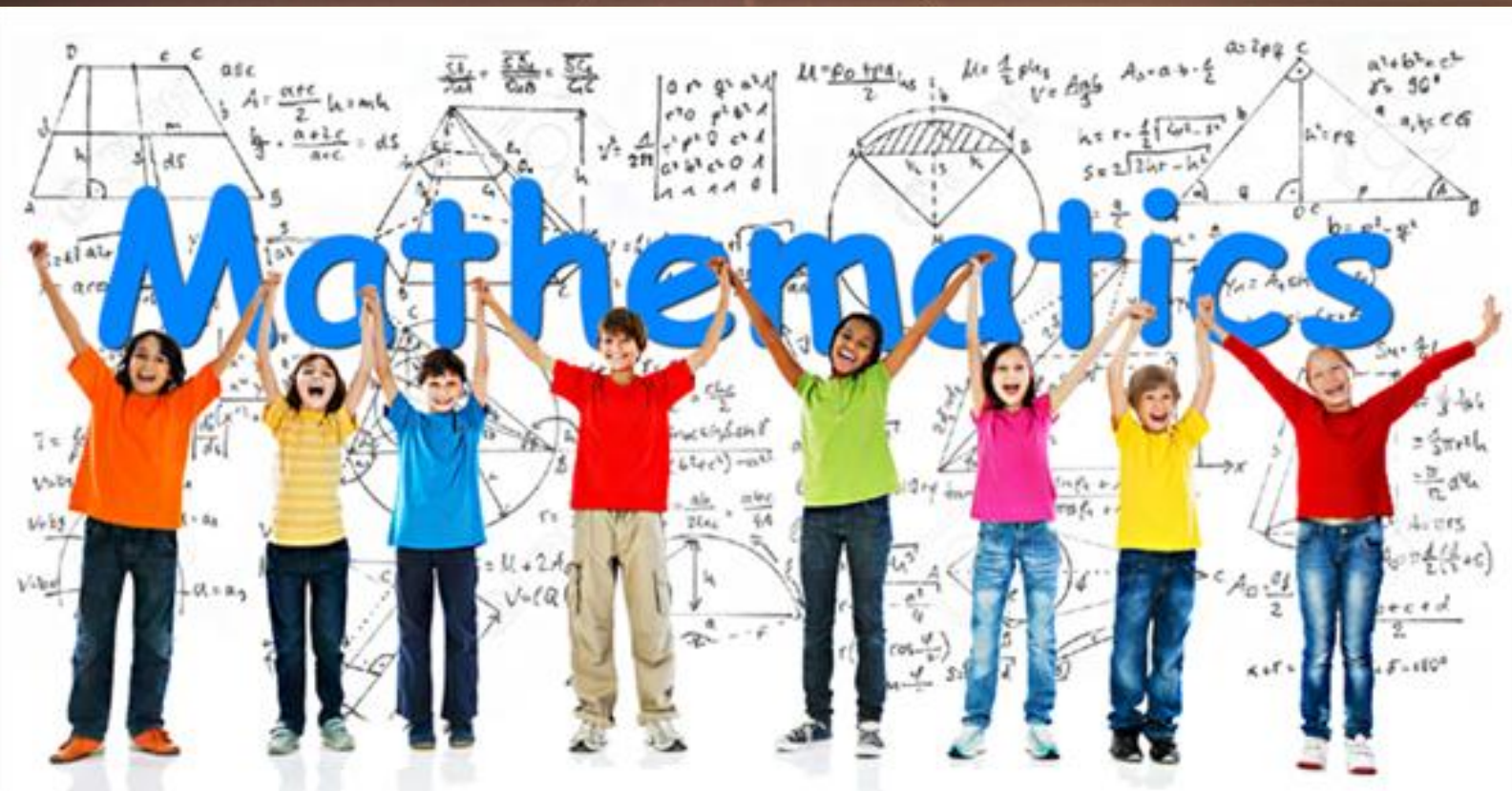
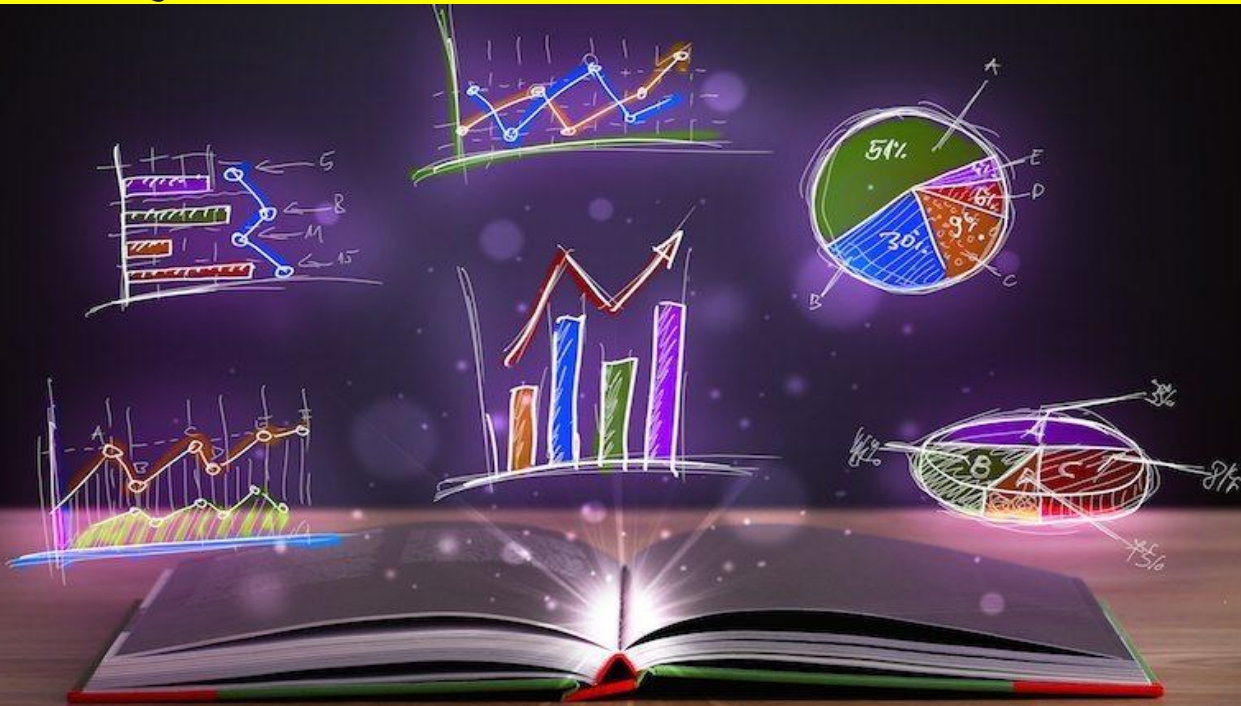
# MATHLETE



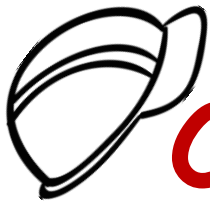
(अक्सर पूछा करते हैं.....)

Classes – 6<sup>th</sup> to 8<sup>th</sup>

Series  
9



MATHEMATICAL LITERACY GROUP- CHANDIGARH



# CONSTRUCTION



- Q.1 A contractor undertook a contract to construct a society in 9 months with a team of 560 persons. Due to COVID-19 and lockdown major part of labour migrate to their home towns and on the otherside contractor received a notice to finish the construction work in 5 months. Now suggest an idea or method to the contractor which he should use so that he can finish that assigned job (completion of construction) in allotted time? what you will do if you will be at the place of contractor?



(note that the working hours of labours are fixed).

- Q.2 After the completion of housing society, resident of that building named "Amazon Towers" is planning to develop a green shade for painting the entire housing society. For this purpose various shades are tried by mixing containers of green paint and white paint. In each of the following mixtures, decide which is the lightest green shade among all of them.

	Mixture A	Mixture B
(i)		
	Mixture C	Mixture D
(ii)		
	Mixture E	Mixture F
(iii)		
	Mixture G	Mixture H
(iv)		

- Q.3 If one container has one litre paint and the building requires 105 litres for painting. How many container of each type is required to paint the building by darkest blue shade?



- Q.4 The volume and the curved surface area of cylindrical paint containers are  $1650 \text{ cm}^3$  and  $660 \text{ cm}^2$  respectively. Find the radius and height of the container.
- Q.5 Out of 105 boxes, 13 boxes were left, find the volume of paint left over in those leftover 13 boxes



## ANSWER KEY

1. 1008 persons. (Inverse variation)
2. Mixuture G.
3. 90 boxes of green paint and 15 boxes of white paint.
4. Radius of container = 5 cm, height of container = 21cm.
5. Volume of paint left over = 21.45 litres.