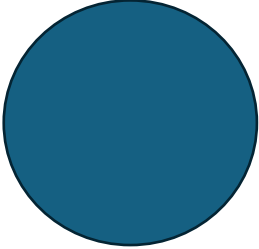
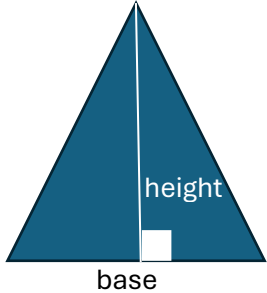
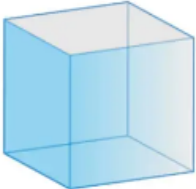
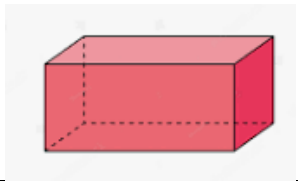
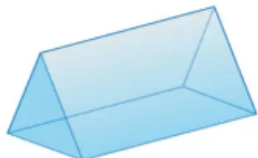


VOLUMES AND SURFACE AREAS OF RIGHT PRISMS

GENERIC FORMULA :

1. VOLUME = AREA BASE x H
2. SURFACE AREA = 2 x AREA BASE + PERIMETER OF BASE x H

SHAPE	AREA	PERIMETER
1. 	$A = s^2$	$P = 4s$
2. 	$A = l \times b$	$P = 2(l+b)$
3. 	$A = \pi r^2$	$P = 2\pi r$ or $P = \pi D$
4. 	$A = \frac{1}{2} \text{base} \times \perp \text{height}$	$P = S_1 + S_2 + S_3$

RIGHT PRISMS (NAMED ACCORDING TO THE BASE)	VOLUME $V = \text{AREA BASE} \times \text{HEIGHT}$	SURFACE AREA $SA = 2 \times \text{AREA BASE} + \text{PERIMETER OF BASE} \times \text{HEIGHT}$	
CUBE/CUBOID 	$V = s^2 \times s$ $V = s^3$	$SA = 2s^2 + 4s \times s$ $SA = 6s^2$	
RECTANGULAR PRISM 	$V = l \times b \times H$	$SA = 2(l \times b) + 2(l + b) \times h$	
CILINDER 	$V = \pi r^2 \times H$	$SA = 2\pi r^2 + 2\pi r \times H$	
TRIANGULAR PRISM 	$V = \left(\frac{1}{2}b \times \perp h \right) \times H$	$SA = 2\left(\frac{1}{2}b \times \perp h \right) + (S_1 + S_2 + S_3) \times H$	
FORMULAE FOR THE SURFACE AREA AND VOLUME OF THE CONE, PYRAMID AND SPERE MUST BE GIVEN BY THE EXAMINER	CONE 	PYRAMID 	SPHERE 