

# STUDENT WORKSHEETS

## Geometrical Object In 3 Dimentional Space

### Cube & Cuboid



### Student Identity

Grups members

:

Class

:

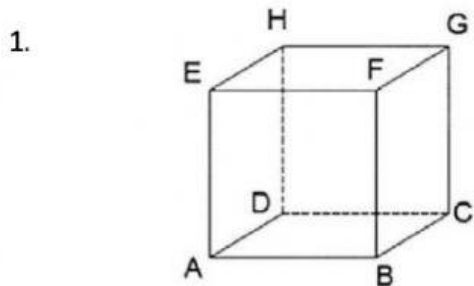
Created by : Ressa Fitrian



## Practice 1

## Determining The Elements of Cube and Cuboids

Determine name of solid, total side, edge, and angular point of the object bellow.



1) Object name : ..... ABCD.EFGH (write)

2) Total side = ..... that are : (Draw answer choices)

a. Underside : .....

BCGF

b. Upside : .....

EFGH

c. Right side : .....

ADHE

d. Left side : .....

ABFE

e. Front side : .....

DCGH

f. Back side : .....

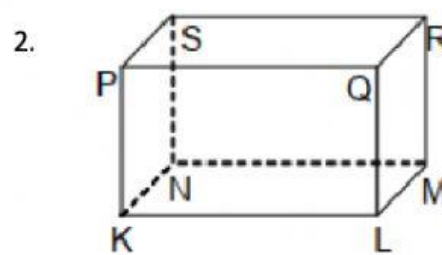
ABCD

3) Total edge = ..... that are : (choose)

| AB | BC | DC | AD | AE | BF | CG | DH |
|----|----|----|----|----|----|----|----|
|    |    |    |    |    |    |    |    |
| EF | FG | GH | EH | AF | AG | BD | AC |
|    |    |    |    |    |    |    |    |

4) Total angular point = .....that are : (choose)

| A  | B  | C  | D  | E  | F  | G  | H  |
|----|----|----|----|----|----|----|----|
|    |    |    |    |    |    |    |    |
| AE | BF | CG | DH | AF | AG | BD | AC |
|    |    |    |    |    |    |    |    |



1) Object name: .....KLMN.PQRS (write)

2) Total side = ..... that are : (Draw answer choices)

a. Underside : .....

PQRS

b. Upside : .....

LMRO

c. Right side : .....

KNSP

d. Left side : .....

KLOP

e. Front side : .....

KLMN

f. Back side : .....

MNSR

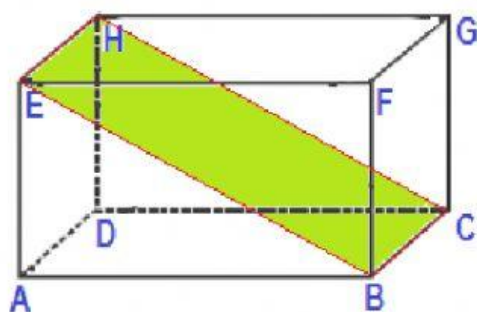
3) Total edge = ..... that are : (choose)

| KL | LM | MN | KN | MR | LQ | KP | NS |
|----|----|----|----|----|----|----|----|
|    |    |    |    |    |    |    |    |
| PQ | PS | QR | SR | KM | SM | KR | MQ |
|    |    |    |    |    |    |    |    |

4) Total angular point = .....that are : (choose)

| K | L  | M | KN | N  | LQ | KP | NS |
|---|----|---|----|----|----|----|----|
|   |    |   |    |    |    |    |    |
| P | PS | Q | R  | KM | S  | KR | MQ |
|   |    |   |    |    |    |    |    |

5. The shaded area (green) in the following image is called the... (click one of the answers)



Diagonal Side



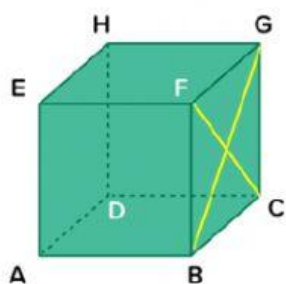
Diagonal Plane



Diagonal Solid

6. Connect Objects with the right answer choices!

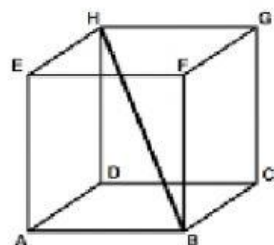
Objects



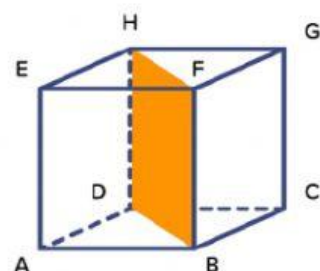
Name



Diagonal  
Plane



Diagonal  
Side



Diagonal  
Solid



## Practice 2

## Determining the Volume and Surface Area of Cube and Cuboid

For Numbers 1-4, connect question with the right formula!

| Question                                | Formula                                         |
|-----------------------------------------|-------------------------------------------------|
| 1. Cube volume formula is . . .         | $6s^2$                                          |
| 2. Cuboid volume formula is . . .       | $s^3$                                           |
| 3. Cube surface area formula is . . .   | $length(l) \times width(w) \times height(h)$    |
| 4. Cuboid surface area formula is . . . | $2[(l \times w) + (l \times h) + (w \times h)]$ |

For numbers 5-10, choose one of the right answers!

5. A cube with a edge length of 6 dm, then the volume of the cube is. . .  $cm^3$

- A. 216                      B. 2160                      C. 21600                      D. 216000

6. A cube with volume  $1728 cm^3$ , , then the edge of the cube is. . .  $cm$

- A. 11                      B. 12                      C. 13                      D. 14

7. A cuboid with length 100 cm, width 50 dm, and height 0,8 m. The volume is. . .

- A.  $4 m^3$                       B.  $40 m^3$                       C.  $400 m^3$                       D.  $40.000 m^3$

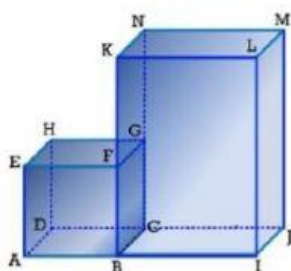
8. A cube-shaped cardboard has a surface area measuring 360 cm, what is the length of the cardboard edge. . .

- A. 6 cm                      B. 60 cm                      C.  $\sqrt{6}cm$                       D.  $\sqrt{60} cm$

9 A cuboid-shaped aquarium without a lid has length of 75 cm, width of 30 cm, and height of 50 cm. What is the surface area of such an aquarium. . .

- A. 12.075 cm                      B. 12.705 m                      C. 12.570 m                      D. 12.750 m

10. Consider the solids bellow!



Solids space composed of cube ABCD.EFGH and cuboid BIJC.KLMN follows. Known length  $AI=15 cm$ ,  $BC=7 cm$ , and  $IL=20 cm$ . The combined surface area is. . .  $cm^2$

- A. 588                      C. 908  
B. 810                      D. 988