# STUDENT WORKSHEETS

## Geometrical Object In 3 Dimentional Space

**Cube & Cuboid**

### Student Identity

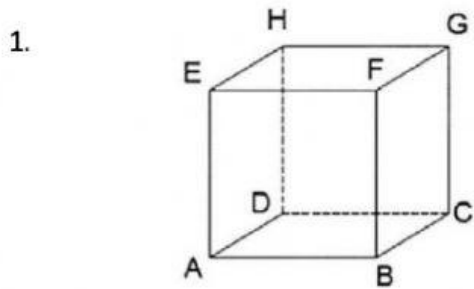**Grups members** :

**Class** :

Created by : Ressa Fitrian

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

1.



2.



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 | BC | B | C | AE | D | CG | E |
|---|----|---|---|----|---|----|---|
|   |    |   |   |    |   |    |   |

| F | G | GH | H | AF | AG | BD | AC |
|---|---|----|---|----|----|----|----|
|   |   |    |   |    |    |    |    |
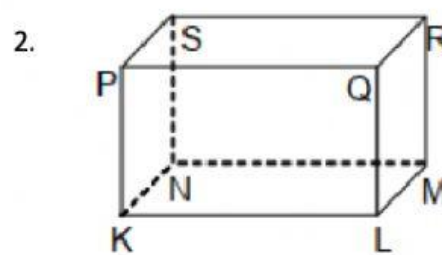
1) Object name: .....................KLMN.PQRS (write)

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

   a. Underside : ...........    PQRS

   b. Upside : ...........    LMRQ

   c. Right side : ...........    KNSP

   d. Left side : ...........    KLQP

   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)
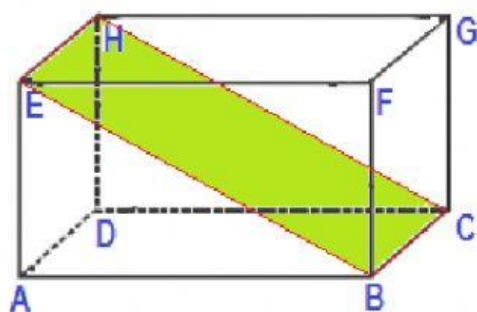


- ⬤ **Diagonal Side**
- ⬤ **Diagonal Plane**
- ⬤ **Diagonal Solid**

6. Connect Objects with the right answer choices!
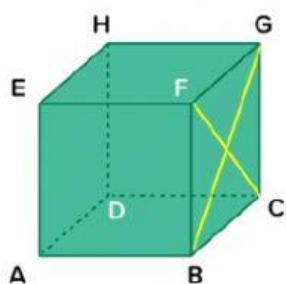
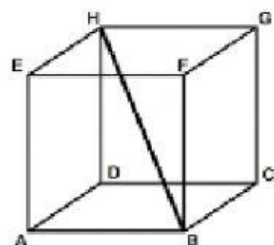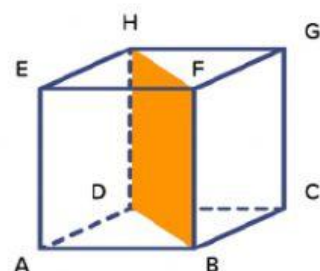| Objects | Name |
|---|---|

  ⬤      ⬤  Diagonal Plane

  ⬤      ⬤  Diagonal Side

  ⬤      ⬤  Diagonal Solid

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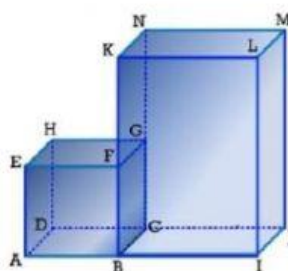
A. 12.075 cm            B. 12.705 m            C. 12.570 m            D. 12.750 m

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. . . $cm^3$

A. 588            C. 908

B. 810            D. 988