

Azaan International School

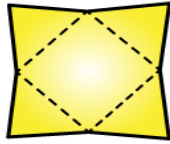
WORKSHEET (2022-23)

Name: _____

Subject: Math

Grade: VIII__

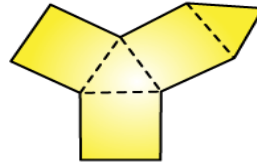
I. Name the polyhedron that can be made by folding each net:



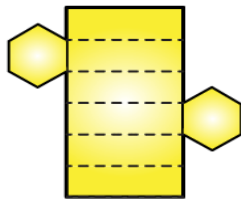
(i)



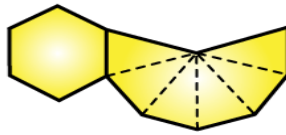
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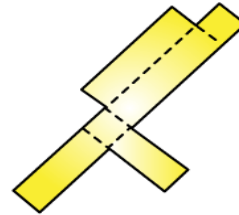
(iii)



(iv)



(v)



(vi)

II. Verify Euler's formula for each of the following polyhedron.



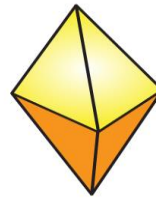
(i)



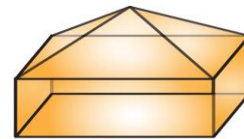
(ii)



(iii)



(iv)



(v)

III. Multiple Choice Questions.

- If M is a number such that $M \div 5$ gives a remainder of 1, then which of the following is the one's digit of M ? ()
(a) 1 (b) 6 (c) 1 or 6 (d) none of these
- If the 4-digit number $2XY7$ is exactly divisible by 3, then the least value of $(X+Y)$? ()
(a) 3 (b) 4 (c) 6 (d) 9
- If x and y are in direct proportion then which of the following is true? ()
(a) $x + y = \text{constant}$ (b) $x - y = \text{constant}$ (c) $xy = \text{constant}$ (d) $\frac{x}{y} = \text{constant}$
- If x and y are in Inverse proportion then which of the following is true? ()
(a) $x + y = \text{constant}$ (b) $x - y = \text{constant}$ (c) $xy = \text{constant}$ (d) $\frac{x}{y} = \text{constant}$

5. Which of the following is not a case of direct variation? ()
- (a) Number of sheets of some kind are increased when their total weight its increased
 - (b) More quantity of petrol is required to travel more distance with a fixed speed
 - (c) More fees would be collected if number of students increased in a class
 - (d) Time taken will be less if number of workers are increased to complete the same work.
6. Which of the following is ease of direct variation? ()
- (a) If the length of radius is increased the circumference will be increased
 - (b) If number of students in a hostel are increased then the fixed food provision will last for less days
 - (c) For fixed duration, more the periods, lesser will be the duration of one period
 - (d) In case of a cylindrical vessel, lesser the diameter more is the level of water in it.
7. The value of $(x - y)(x + y) + (y - z)(y + z) + (z - x)(z + x)$ is: ()
- (a) $x + y + z$
 - (b) $x^2 + y^2 + z^2$
 - (c) $xy + yz + zx$
 - (d) 0
8. The height of a cuboid whose volume is 275 cm^3 and base area is 25 cm^2 is: ()
- (a) 10
 - (b) 11
 - (c) 12
 - (d) 13
9. The area of a trapezium is 480 cm^2 , the distance between two parallel sides is 15 cm and one of the parallel side is 20 cm. The other parallel side is: ()
- (a) 20cm
 - (b) 34cm
 - (c) 44cm
 - (d) 50cm
10. If a cuboidal box has height, length and width as 20 cm, 15 cm and 10 cm respectively. Then its total surface area is: ()
- (a) 1100 cm^2
 - (b) 1200 cm^2
 - (c) 1300 cm^2
 - (d) 1400 cm^2

III. Solve the following .

1. Find the coordinates of points A, B, C, D in the graph-1.
2. Write the coordinates of each of the vertices of each polygon in the graph-2.

