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| **OXFORD INTERNATIONAL SCHOOL IQBAL CAMPUS**  **Preliminary testing or trial 2024**  **Name: \_\_\_\_\_\_\_\_\_\_\_\_\_ Grade: VII Subject: Mathematics. /50** |

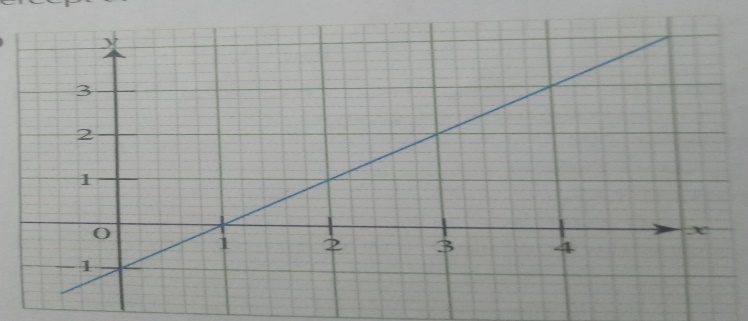
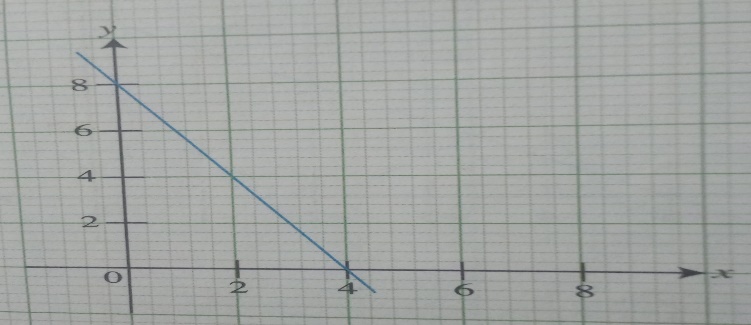
**Q1 (a): Multiple Choice Questions. /10**

1. 6x = 60
2. 6 b. 1 c. -5 d. 25
3. Gradient = \_\_\_\_\_\_
4. b. c. both a and b d. axis
5. \_\_\_\_\_\_\_ is a measure of how steep a slope is.
6. Horizontal b. Vertical c. both d. Gradient
7. Sin A = = \_\_\_\_\_
8. Sin b. c. d. both a and b
9. Sin A = = \_\_\_\_\_
10. both b and c b. perpendicular c. . d. finite
11. A pentagon has \_\_\_\_\_\_ sides.
12. 5 b. 4 c. 3 d. 1
13. In a \_\_\_\_\_\_\_\_, the apex is the vertex at the "top" (opposite the base)
14. Sphere b. Pyramid c. Rectangle d. Triangle
15. Total surface area of Pyramid = \_\_\_\_\_\_\_\_\_\_\_
16. Total volume b. total area of all faces c. both a and b d. sphere
17. A shape or an object has \_\_\_\_\_\_\_\_\_ if it can be divided into two identical pieces.
18. Symmetry b. area c. mirror d. lines
19. ∈ is a symbol which means \_\_\_\_\_\_\_. If b ∈ B, it shows that b is the element of B.
20. Not belongs to b. 'belongs to' c. U d.

**Q1 (b): Fill in the blanks. /5**

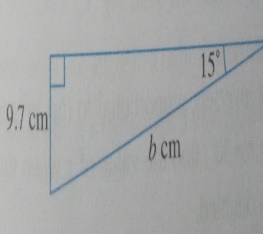
1. The formula of Mean = \_\_\_\_\_
2. Volume of Cylinder = \_\_\_\_\_\_
3. Volume of Pyramid = \_\_\_\_\_\_
4. Y-axis is always be \_\_\_\_\_\_\_
5. Volume of Sphere = \_\_\_\_\_\_\_

**Q2: Given that the equation of the line representing each of the following linear graphs is in the form Y=mx+c, find the gradient m and state the y-intercepts. /5**

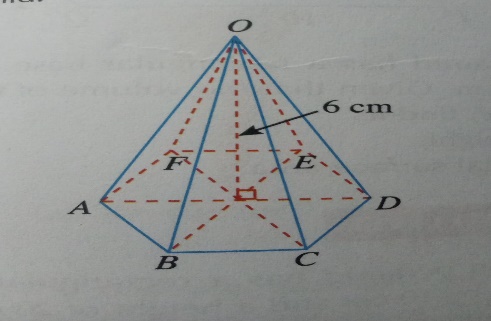
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**Q3: Use calculator to evaluate each of the following. /3 a.**

**Q4: Find the value of unknown in each of the following right-angled triangle. /3**

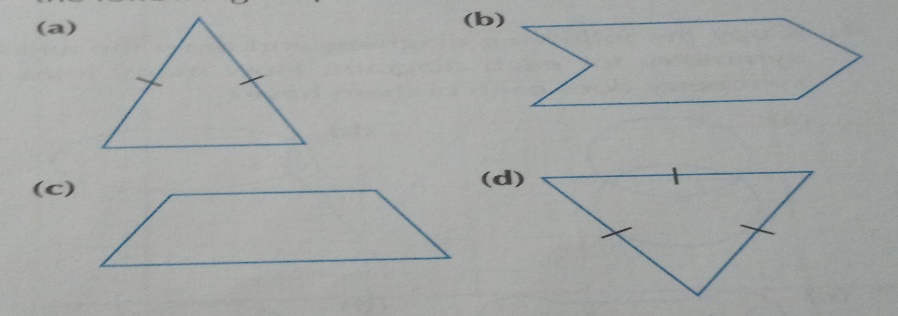


**Q5: OABCDEF is hexagonal Pyramid with a base area of 23 cm2 and a height of 6cm find the Pyramid.** **/5**

1. 

**Q6. A cone has a height of 14cm and a volume of 132cm3. Find the radius of the circular base. (Take π to be ) /5**

**Q7. How many lines of symmetry are there each of the following shapes? /4**



**Q8. List the element of the following sets. /5**

1. **{vowels in the word “MATHEMATICS”}**
2. **{The seven colors of rainbow}**
3. **{Multiples of 9 which are less then 50)**
4. **{Colors in your school flag}**
5. **{Even numbers which are between 10 and 23}**

**Q9. The number of days the students in a class were absent from school in a term was**

**recorded. /5**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Number of days absent.** | **0** | **1** | **2** | **3** | **4** | **5** | **6** | **9** |
| **Number of students** | **23** | **4** | **5** | **2** | **2** | **1** | **2** | **1** |

**Find the mean number of days of absence.**