## INDIAN SCHOOL AL WADI AL KABIR

## REVISION WORKSHEET

Post Mid-Term Examination (2023-24)
Class: VIII
Sub: MATHEMATICS
Section A: Multiple Choice Question (Q. 1 to Q.6) of $\mathbf{1}$ mark each

1. What digit will be at the "ones" place of the cube of 12 ?
A
9
B
4
C
8
D $\quad 0$
2. The smallest number by which 6912 should be divided so that the quotient obtained is a perfect cube is $\qquad$ -.

| A | 4 | B | 8 | C | 3 | D | 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

3. A box of pencils is divided among 50 children so that they will get 4 pencils each. How many would each get if the number of children is reduced by 10 ?
4. The area of the given quadrilateral $P Q R S$ is


|  | A | $1000 \mathrm{~cm}^{2}$ | B | $100 \mathrm{~cm}^{2}$ | C | $900 \mathrm{~cm}^{2}$ | D | $180 \mathrm{~cm}^{2}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 5. | The edge of a cube is 36 cm , how many cubes of side 9 cm can be formed from this cube? |  |  |  |  |  |  |  |
|  | A | 36 | B | 64 | C | 81 | D | 100 |
| 6. | If "a" varies directly with "b", the value of $a=18$ when $b=24$. Find the value of ' $a$ ' when $b=4$. |  |  |  |  |  |  |  |
|  | A | 3 | B | 5 | C | 4 | D | 1 |


15. Anupama records the distance covered and time taken during her daily morning walks for 5 consecutive days.

| Distance (in metres) $x$ | 1000 | a | b | 3000 | d |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Time (in minutes) $y$ | 16 | 30 | 24 | $c$ | 40 |

Find the value of missing $a, b, c$ and $d$.
Section D: Case study (Q. 16 \& Q.17) of 4marks each
16. Case Study 1: Mrs. Sharma ran a hostel for college students nearby. It was famous for its cleanliness and discipline.

Based on the above information answer the following questions.


1) There are 125 students in a hostel.

Food provision for them is for 16 days. How long will these provisions last, if 75 more students join the group?
2) 24 fans are fixed in 12 rooms. How many fans are required in 24 rooms?
3) On Every festival occasion, Mrs. Sharma distributes sweets to the students. If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of children is reduced by 4 ?
4) 72 beds are arranged in 4 dormitories. How many dormitories do the hostel have if there are 360 beds?
17. Case Study 2: Anoop started renovating his grandparent's house in a village, he constructed a new room but there was a severe shortage of water in the area. To address this issue, he discussed the matter with his friend and they both decided to dig a well. The well would be 20 meters deep and 14 meters in diameter.


Based on the above information answer the following questions.

1) If the dimension of the new room is $24 m \times 30 m \times 4 m$. Find the total surface area of the room.
2) If the cost of painting is ₹ 50 per metre square. Find the cost of painting the four walls of the new room.
3) What will be the formula for the volume of earth dug out of the well?
4) How much earth (Volume) will be dug out if?

Answer Key

| Q1 | C | Q5 | B | Q9 | C | Q13 | 240 | Q17 | $1872 \mathrm{~m}^{3}$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Q2 | A | Q6 | A | Q10 | B | Q14 | ₹7520 |  | ₹ 21,600 |
| $\pi^{2} \mathrm{~h}$ |  |  |  |  |  |  |  |  |  |
| $3080 \mathrm{~m}^{3}$ |  |  |  |  |  |  |  |  |  |

