	INDIAN SCHOOL AL WADI AL KABIR

Post Mid-Term Examination (2023-24)

Class: VI   Sub: MATHEMATICS   Max Marks: 30

Date: 30-11-2023   Set- II   ANSWER KEY

Time: 1 hour

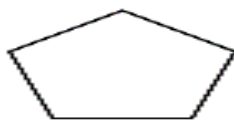*Instructions:*

Section A: Multiple Choice Questions (Q.1 to Q.6)
Section B: Source-based questions (Q.7 to Q.11)
Section C: Long Answer Questions (Q.12 to Q.15)
Section D: Case Study Questions (Q.16 to Q.17)

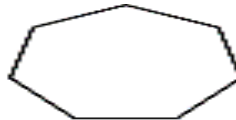**Section A**: Multiple Choice Question (Q.1 to Q.6) of **1** mark each

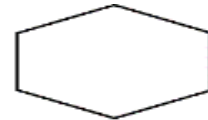**1.** Observe the polygons displayed below and identify which one of them is a pentagon.

Polygon A   Polygon B   Polygon C   Polygon D

	D	Polygon A

2. Which of the following indicates the highest temperature in degrees Celsius (°C)?

A	10°C

3. On the number line, the integer 6 is located _____

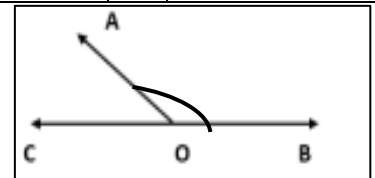| B	to the right of 0.

4. Name the quadrilateral whose all sides are equal and all angles are equal to 90 degrees.

B	Square

5. What is the successor of (−12)?
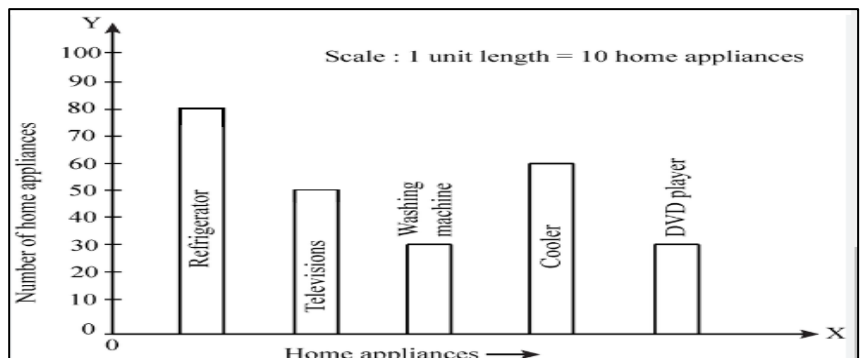
C	(−11)

6. Classify the type of angle represented by ∠AOB in the figure shown.

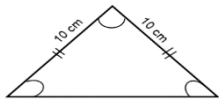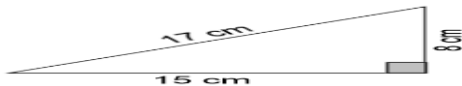| B	Obtuse angle

Section B: Source-based questions (Q.7 to Q.11) of **1** mark each

During the festival season, an electronics store announced a discount sale on home appliances. The sale for one month of the shop was shown as a bar graph.

Observe the bar graph and answer the question that follows.

Scale : 1 unit length = 10 home appliances

7.	How many more Televisions are sold than DVD Player?						
		B	20				
8.	What are the combined total sales of televisions and coolers?						
				C	110		
9.	Which two appliances were sold in equal numbers?						
				C	Washing machine and DVD player		
10.	How many Coolers were sold in the month?						
	A	60					
11.	Which appliance has the maximum monthly sales?						
		B	Refrigerator				

<div align="center">Section C: Long Answer Questions (Q12 to Q.15)</div>

12.	Name each of the following triangles in 2 different ways. (2 marks) (a) (b) Isosceles Acute angled triangle (½+½) Scalene right- angled triangle (½ + ½)
13.	The data on modes of transport used by 20 students to come to school are given below: (2m) Arrange the data given in a frequency table Walk, Bus, Bike, Walk, Bike, Bike, Bus, Walk, Walk, Car, Bus, Car, Car Walk, Walk, Bus, Bike, Bus , Car, Walk Data Tally mark frequency Walk ⊤Ⅲ Ⅱ. 7 Bus Ⅰ N̶L̶ 5 Bike Ⅰ Ⅰ Ⅰ Ⅰ 4 car Ⅰ Ⅰ Ⅱ 4 . (1Tally marks + 1 frequencies)

14.	Evaluate the following: (3 marks)
	a. 23 + 77 + (−33) + (−17)
	     = (23 + 77) − (33 +17)
	     = 100 − 50 ½ + ½
	     = 50 ½
	
	b. 60 + (−35) − (−25)
	     = 60 + (−35) − (−25)
	     = (60 -35) + 25 --------- ½
	     = 25 + 25 ----------½
	     = 50 ------------- ½

15.	Answer the following questions: (4 marks)

15. Answer the following questions: (4 marks)

(i) What part of a revolution have you turned through if you stand facing North and turn clockwise to turn West?

(ii) Which direction will you face if you start facing east and make $\frac{1}{2}$ of a revolution clockwise?

(iii) Where will the hour hand of a clock stop if it starts from 5 and turns through 1 right angle?

(iv) Where will the hand of a clock stop if it starts at 2 and makes $\frac{3}{4}$ of a revolution, clockwise?

Ans : (i) ¾ of a revolution   -----1 mark
(ii) west   -----1 mark
(iii) 8   -----1 mark
(iv) 11   -----1 mark

16. **Case Study-1:**

The following is an account of a shopkeeper that shows profit and loss from the sale of certain items.

Based on the above information answer the following questions.

Name of the item	Profit	Loss
Millet	₹150	-
Wheat	-	₹ 250
Pulses	₹225	-
Coconut oil	-	₹330

(i) Write the loss of ₹250 on wheat with appropriate signs.

(ii) The shopkeeper deposits ₹2800 in his bank account and withdraws ₹1500 from it, the next day. Find the balance in the shopkeeper's account.

(iii) Write the additive inverse of ₹330.

(iv) How many negative integers are between (-5) and 2.

Ans : (i) $-$₹250   -----1 mark
(ii) ₹1300   -----1 mark
(iii) $-$₹ 330   -----1 mark
(iv) $-4, -3, -2, -1$ or 4 -----1 mark

17. **Case Study-2:**

The pictograph depicts a variety of subject books available in a school library for students.

Based on the above information answer the following questions.

(i) How many Hindi books are there in the library?

(ii) How many symbols are needed to represent the 350 magazines available in the library?

(iii) Which books are maximum in number?

(iv) Which subject books are 200 in number?

Ans : (i) 275   -----1 mark
(ii) 7   -----1 mark
(iii) English   -----1 mark
(iv) Science   -----1 mark