KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION
COPETENCY BASED QUESTIONS
CLASS: VII
NAME OF CHAPTER : INTEGERS

	MCQ
Q1	**5 added to -5 gives:** a) 10 (b) -10 (c) 0 (d) -25
Q2	**Sum of two negative integers is always:** a) Positive (b) Negative (c) 0 (d) 1
Q3	**Sum of -36 and 0 is** a) -65 (b) 65 (c) 7 (d) -7
Q4	**Sum of -36 and 29 is** a) -65 (b) 65 (c) 7 (d) -36
Q 5	**The integer succeeding -9 is:** a) -10 (b) 10 (c) -8 (d) 8
Q 6	The product of two integers is -160. If one of them is 20, find the other. a) -80 (b) 10 (c) -8 (d) 8
Q 7	**Multiplicative inverse for -x is _____**
Q 8	Use the sign of >, < or = in the box to make the statement true. 25 – 40 + 10 □ 25 – 40 – 10
Q 9	The figure shows a number crunching machine in which any integer can be fed as input. There are a set of instructions which produces output as follows:
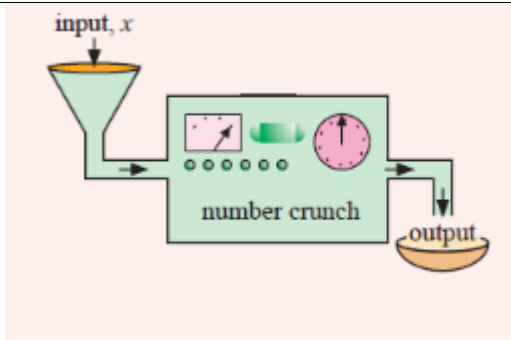
If a positive integer is fed into the number crunching machine, it produces one of two results:

- If the integer fed in is EVEN, the machine divides the number by 2.
- If the integer fed in is ODD, the machine subtracts one from the number.
- If a negative integer is fed into the number crunching machine, it produces its additive inverse.

Question1. Find the result when the following numbers are fed into the machine:
i. 273   (ii) -84
Question2. What can be the input to the machine if the output is 18?
a.36   (b) 19   (c) -18   (d) All of the above

Q 10	The table shows the lowest recorded temperatures for each continent.

The lowest recorded temperatures	
CONTINENT	TEMPERATURE IN FAHRENHEIT
AFRICA	-11^0
ANTARCTICA	-129^0
ASIA	-90^0
AUSTRALIA	-9^0
EUROPE	-67^0
NORTH AMERICA	-81^0
SOUTH AMERICA	-27^0

Question: 1. Write the continents in order from the lowest recorded temperature to the highest recorded temperature.

Ans.: ……………………………………………………………

	Question: 2. Write the difference in the temperatures of AFRICA and SOUTH AMERICA

SOLUTIONS:

A 1.	(c) 0
A 2.	(b) Negative
A 3.	(d) -7
A 4.	(d) -36
A 5.	(c) -8
A 6.	(a) -80
A 7.	-1/x
A 8.	>
A 9.	Question: 1. i. 272 ii. 84 Question: 2. (b) 19
A 10.	Question: 1. ANTARCTICA, ASIA, NORTH AMERICA, EUROPE, AFRICA, AUSTRALIA Question: 2. 16

NAME OF TEACHER : PRATIBHA MISHRA

NAME OF KV   : PORBANDAR

# KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION

COPETENCY BASED QUESTIONS

CLASS: VII

NAME OF CHAPTER : <u>FRACTIONS AND DECIMALS</u>

	MCQ
Q1	Which of the following is an improper fraction? (a) $\frac{1}{4}$ (b) $\frac{3}{4}$ (c) $\frac{2}{7}$ (d) $\frac{7}{2}$
Q2	What is $\frac{1}{4}$ of 24 ? (a) 6 (b)12 (c) 48 (d)16
Q3	5 paise is equal to (a) Rs 0.5 (b) Rs 0.05 (c) Rs 0.005 (d) Rs 0.0005
Q4	0.6 × 100 is equal to (a) 6 (b) 60 (c) 600 (d) 0.06
Q 5	$\frac{1}{3} \div \frac{5}{3}$ is equal to (a) $\frac{1}{3}$ (b) $\frac{1}{5}$ (c) $\frac{3}{5}$ (d) $\frac{5}{9}$
Q 6	Write the place value of 2 in the decimal numbers 9.82
Q 07	Which is greater? 2.05 or 2.50

Q 08	Find the value of 0.1×0.2×0.3

Q 09	A game of dice is played with a coloured dice shown in picture.
	The rules of the games are as follows. Each player starts with 1000 points. On throwing the dice if a player gets
	 Red Colour – Points become ½ times.
	Orange Colour – points become 1.25 times.
	Blue Colour – Points get ¼ of his existing score.
	Violet colour – Points get doubled
	Yellow colour – Points become 3.001 times Green colour
	               – Point become 0.912 times.
	
	Question1. To get more points which colour should the player seek?
	
	   a. Yellow b. green c. red d. violet
	
	Question2. Which colour should the player avoid?
	
	   a. Yellow b. green c. red d. blue
	
	Question3. If a player starts with 1000 points and gets 4 reds back to back how many points will he have now?
	
	   a. 62.5 b. 65.5 c. 64.5 d. 66.5

Q 10	Eating fruits regularly benefits your body as they are natural sources of vitamins and minerals, which are essential for the proper functioning of body. Apple, Grapes & Bananas are the good source of carbohydrates. A grape is botanically a berry of deciduous woody

vines of the flowering plant genus Vitis. Apple contains high level of boron which stimulates electrical activity of brain and increases mental alertness. Bananas are officially considered as herbs .It is good source of fiber .It can float in water because they are less dense in comparison with water. Due to rich sources of carbohydrates & fiber these are most sold fruits worldwide. Given bar graph shows the fruits Apple, Grapes & Bananas sold (in tons) through the year 2011 to 2013 in a city.
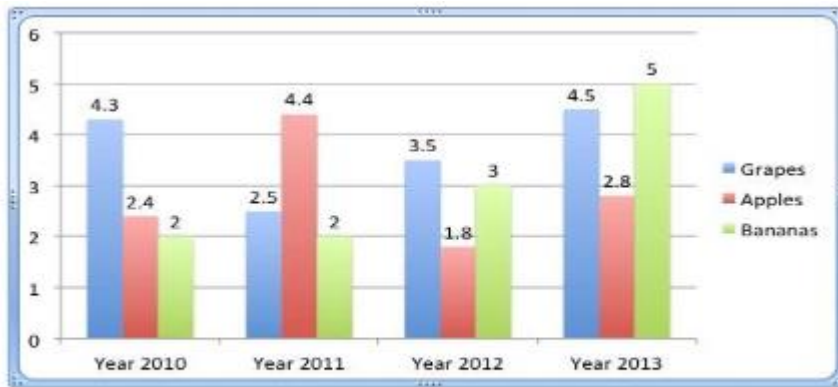
(image source-Google)

Question1. Observe the graph and write the ratio of the amount of Bananas and Apples that were sold from 2010 to 2013?

a)   25:37   (b)   60:57   (c) 59:57   (d) 19:20

Question2. How many times apples were sold In the year 2010 in comparision to bananas sold In 2011?

a)   1.2   (b)   1.5   (c) 1.8   (d) 2.4

Question3. Name the ruit which is sold the most from 2010 to 2013?

a) apples   (b)   grapes   (c) bananas

SOLUTIOS:

A 1.	(d) $\frac{7}{2}$
A 2.	(a) 6
A 3.	(b) Rs 0.05
A 4.	(b) 60
A 5.	(b) $\frac{1}{5}$

A 6.	0.02			
A 7.	2.50			
A 8.	0.006			
A 9.	Q1. Yellow Q2.blue Q3. 62.5			
A 10.	Q1. (b) 60:57	Q2. a)	1.2	Q3. GRAPES

NAME OF TEACHER : PRATIBHA MISHRA

NAME OF KV   : PORBANDAR

	MCQ
Q1	The range of the data 14, 6, 12, 17, 21, 10, 4, 3 is (a) 21 (b) 17 (c) 18 (d) 11
Q2	The mode of the data 23, 26, 22, 29, 23, 29, 26, 29, 22, 23 is (a) 23 and 29 (b) 23 only (c) 29 only (d) 26 only
Q3	The median of the data 40, 50, 99, 68, 98, 60, 94 is (a) 40 (b) 60 (c) 68 (d) 99
Q4	If the mean of 26, 28, 25, x, 24 is 27, find the value of x. (a) 21 (b) 32 (c) 18 (d) 11
Q 5	The mean of 10 observations was calculated as 40. It was detected on rechecking that the value of 45 was wrongly copied as 15. Find the correct mean. (a) 21 (b) 17 (c) 43 (d) 11
Q 6	In a school, only 2 out of 5 students can participate in a quiz. What is the chance that a student picked at random makes it to the competition? (a) 20% (b) 40% (c) 50% (d) 30%
Q 07	Following cards are put facing down: A E I O U What is the chance of drawing out (a) a vowel (b) A or I (c) a card marked U (d) a consonant
Q 08	If the arithmetic mean of 8, 4, x, 6, 2, 7 is 5, then the value of x is _____.
	CASE BASED/SOURCE BASED / PASSAGE BASED
Q 09	Case Study

Favourite Sport	Cricket	Basket Ball	Swimming	Hockey	Athletics
Watching	1240	470	510	430	250
Participating	620	320	320	250	105

refer to above image and answer the following questions
Questions
Q1.Find the Median of people watching sports.
A   1240   **B** 470   **C** 510
D 430

Q2.Which sport is least popular ?
A Atheletics   **B** basket ball   **C** cricket
D.swimming
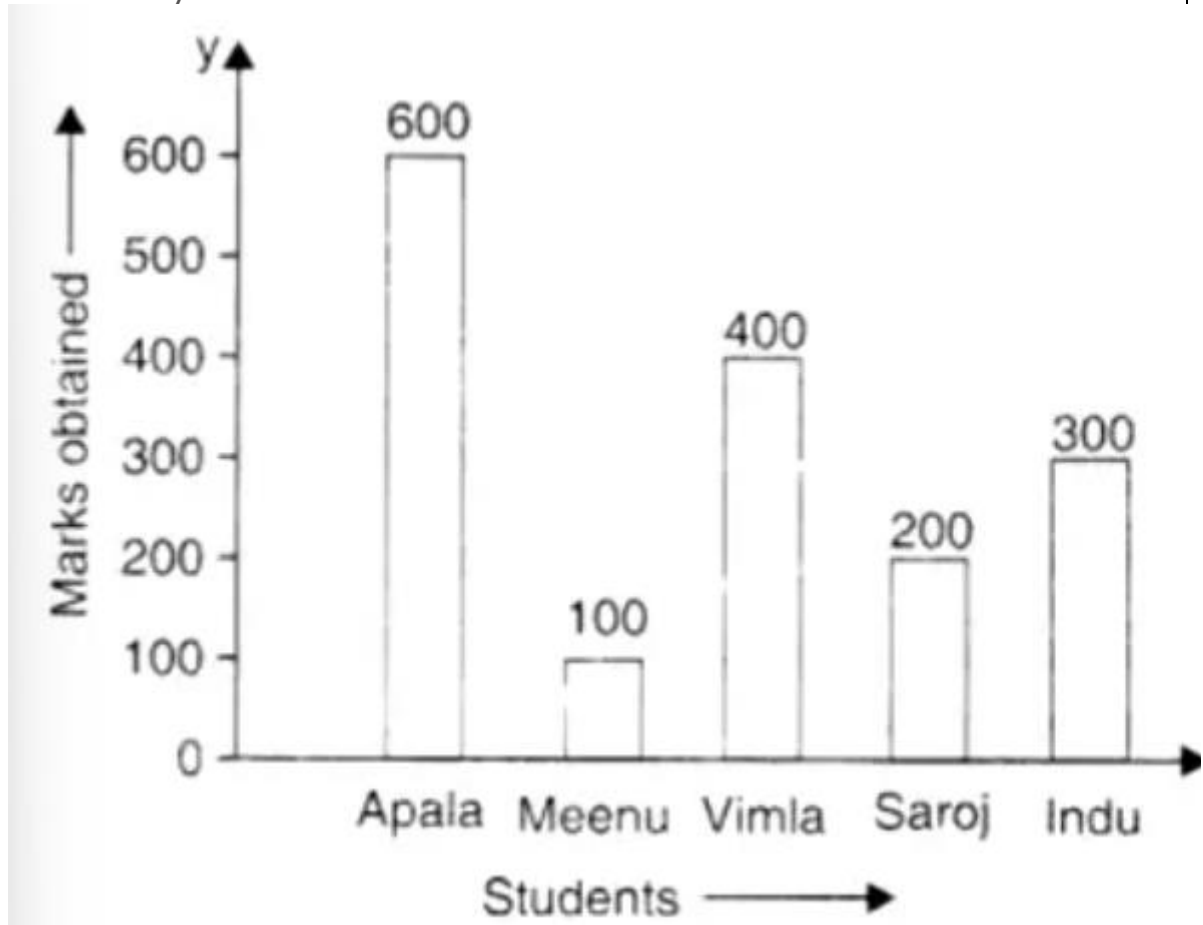Find Mean of people participating in sports.
A 320   **B**330   **C**323
D 340
Q3.Which sport is most popular ?
A hockey   **B** basket ball   **C** cricket   **D**
Hockey
Q4.Find the Mode of people watching sports.
 A 1240   **B** 470   **C** 510
D 430
Q5.
Find the Mode of people watching sports.
A 1240   B 470   **C** 510
D 430

Q 10 | Case Study

Read the following bar graph and answer the following related questions :

Read the following bar graph and answer the following related questions :

Questions

Q1.Who got the maximum marks?

A Apala   **B** Meena   **C** Sarooj   **D** Indu

Q2. Who got the minimum marks?

A Apala   **B** Meena   **C** Sarooj   **D** Indu

Q3. The difference between maximum and minimum marks is

A 100   **B** 200   **C** 400   **D** 500

Q4.The ratio between the marks obtained by Saroj and Vimla is

A 1:2   **B** 2:3   **C** 3:4   **D** 1:6

Q5. How many girls have got marks more than 100?

A2   **B**3   **C**4   **D**1

NAME OF TEACHER : SURENDRA PRASAD

NAME OF KV   : ONGCC CHANDKHEDA

ANSWER:

1 C   2 B   3 C   4 B   5 C   6 B   7 A   8 3

9   1 B   2 A   3 A   4 A   5 A

10   1 A   2 B   3 B   4 A   5 C

	MCQ
Q1	−1 is not a solution of the equation (a) x + 1 = 0 (b) x − 1 = 2 (c) 2y + 3 =1 (d) 2p + 7 = 5
Q2	9 added to twice a number gives 13. Find the number.
Q3	If a and b are positive integers, then the solution of the equation ax = b will always be a (a) positive number (b) negative number (c) 1 (d) 0
Q4	The equation which cannot be solved in integers is (a) 5y − 3 = − 18 (b) 3x − 9 = 0 (c) 3z + 8 = 3 + z (d) 9y + 8 = 4y − 7
Q 5	The value of y for which the expressions (y − 15) and (2y + 1) become equal is (a) 0 (b) 16 (c) 8 (d) − 16
Q 6	x exceeds 3 by 7, can be represented as (a) x + 3 = 2 (b) x + 7 = 3 (c) x − 3 = 7 (d) x − 7 = 3
Q 07	Shifting one term from one side of an equation to another side with a change of sign is known as (a) commutativity (b) transposition (c) distributivity (d) associativity
Q 08	The equation having − 3 as a solution is: (a) x + 3 =1 (b) 8 + 2x = 3 (c) 10 + 3x = 1 (d) 2x + 1 = 3
	CASE BASED/SOURCE BASED / PASSAGE BASED
Q 09	Case Study The sum of two numbers is 60 and their difference is 30. **Questions** Q1.If smaller number is x, the other number is_____ **A** 30-x **B** x − 30 **C** 60-x **D** 60+x Q2.The difference of numbers in term of x is_____ **A** 60-2x **B** 60+2x **C** 40-2x **D** 30+2x Q3.The equation formed in terms of x is_____ **A** 2x = 60 **B** 2x = 40 **C** 2x = 50 **D**2x = 30 Q4.The solution of the equation is _____. **A** 15 **B** 20 **C** 25 **D** 30 Q5.The numbers are_____ **A** 20 and 40 **B** 15 and 45 **C** 18 and 42 **D** 48 and 12

Q 10	Case Study Sum of two numbers is 81. One is twice the other. **Questions** Q1.If smaller number is x, the other number is_____ **A** 81-x **B** 4x **C** 2x **D** both (a) and (c) Q2.The difference of numbers in term of x is_____ **A** 81-2x **B**81 + 2x **C** 54-2x **D** 54+2x Q3.The equation formed in terms of x is_____ . **A** x+5=7 **B** x-2=1 **C** 2x+3=10 **D** x+2x=81 Q4.The solution of the equation is_____. **A** 27 **B**57 **C**23 **D**6 Q5.The numbers are_____ **A**10 and 71 **B** 27 and 54 **C** 21 and 60 **D** 30 and 51

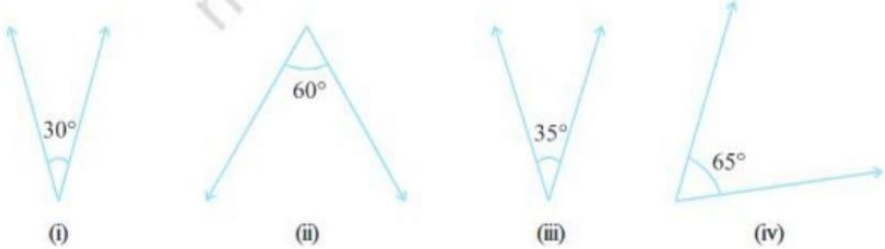**ANSWER:**

1 B   2 2   3 A   4 C   5 D   6 C   7 B   8   C

9   1 C   2 A   3 D   4 A   5 B

10   1 D   2 A   3 D   4 27   5 B

NAME OF TEACHER :SURENDRA PRASAD

NAME OF KV   :ONGC CHANDKHEDA

KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION
COPETENCY BASED QUESTIONS
CLASS: VII
NAME OF CHAPTER : LINES & ANGLES

	MULTIPLE CHOICE QUESTIONS
Q1	When the sum of the measures of two angles is 90°, the angles are called _____ angles. (a)SUPPLEMENTARY (b)COMPLEMENTARY (c)ACUTE (d)OBTUSE
Q2	 In the above fig, which of the following pairs are complementary? (a)only i and ii (b) only iii and iv (c) BOTH i, ii and iii,iv (d) NONE OF THE ABOVE
Q3	Can two lines intersect in more than one point? (a) YES (b)NO
Q4	Draw any rectangle and find out the measures of angles at the four vertices made by the intersecting lines. (a) 45° (b) 60° (c) 90° (d) 30°
Q 5	When a transversal cuts two lines, such that pairs of corresponding angles are equal, then the lines have to be _____. (a) PARALLEL (b) NON-PARALLEL
Q 6	When a transversal cuts two lines, such that pairs of alternate interior angles are equal, the lines have to be _____. (a) PARALLEL (b) NON-PARALLEL
	ASSERTION- REASONING QUESTIONS
Q 07	Assertion: When the sum of the measures of two angles is 90°, the angles are called complementary angles. Reason: Two acute angles can be complementary to each other. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.
Q 08	Assertion: The sum of the measures of two complementary angles is 90°.

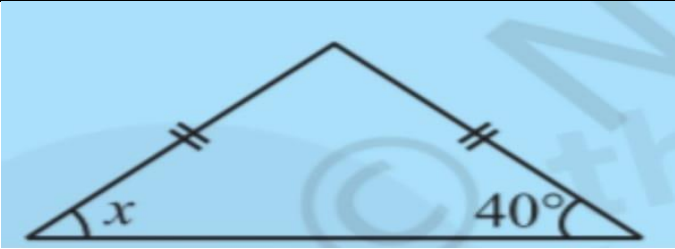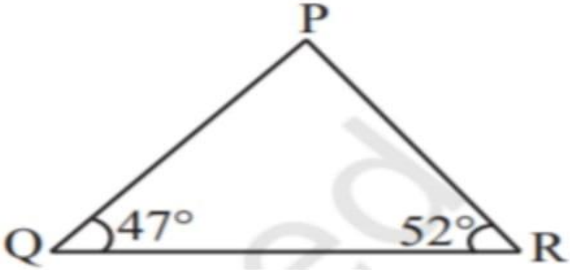|	
	Reason: When the sum of the measures of two angles is 90°, the angles are called complementary angles. (a) Both A and R are true and R is the correct explanation of A. (b) Both A and R are true but R is not the correct explanation of A. (c) A is true but R is false. (d) A is false but R is true.
	CASE BASED QUESTIONS
Q 09	In a exam, several angles were given that were asked to students that which angle is its supplement. Below here are given those angles. Identify the angle. (1) What is the supplement of the angle 70° ? (a)30°　　(b)90°　　(c)110°　　　(d) 120° (2) What is the supplement of the angle 120° ? (a)30°　　(b)60°　　(c)45°　　　(d) 55° (3) What is the supplement of the angle 135° ? (a)45°　　(b)55°　　(c)90°　　　(d) 30° (4) What is the supplement of the angle 135° ? (a)45°　　　(b)90°　　(c)35°　　　(d) 120°
Q 10	In a exam, several angles were given that were asked to students that which angle is its complement. Below here are given those angles. Identify the angle. (1) What is the complement of the angle 35° ? (a)55°　　　(b)145°　　(c)30°　　(d) 150° (2) What is the complement of the angle 72° ? (a)28°　　　(b)35°　　　(c)108°　　(d) 18° (3) What is the complement of the angle 45° ? (a)35°　　　(b)45°　　　(c)135°　　(d) 55° (4) What is the complement of the angle 85° ? (a)5°　　　(b)105°　　(c)35°　　(d) 45°

NAME OF TEACHER : GAJENDRA SINGH RATHOUR

NAME OF KV　　　: OKHA

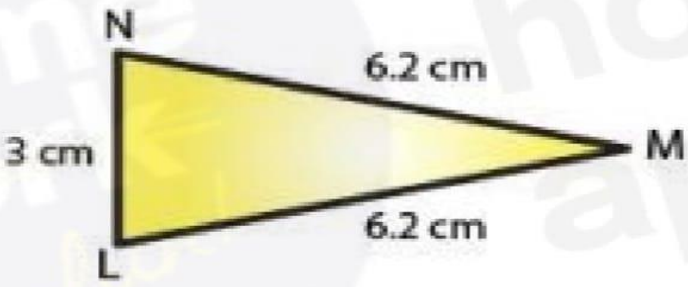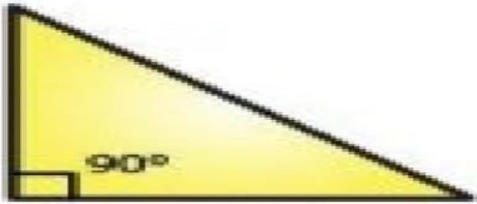**KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION**
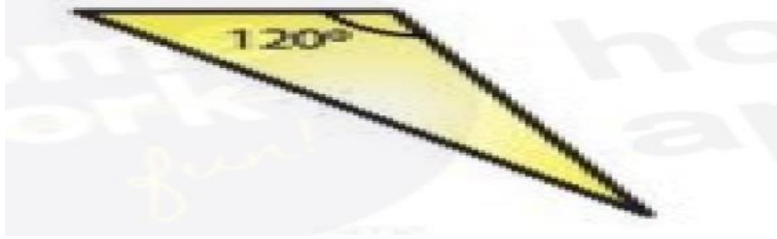**COPETENCY BASED QUESTIONS**
CLASS: VII
NAME OF CHAPTER : LINES & ANGLES

ANSWERS

	MULTIPLE CHOICE QUESTIONS
Q1	(b)COMPLEMENTARY
Q2	(a)only i and ii
Q3	(b)NO
Q4	(c) 90°
Q 5	(a) PARALLEL
Q 6	(a) PARALLEL
	ASSERTION- REASONING QUESTIONS
Q 07	(b) Both A and R are true but R is not the correct explanation of A.
Q 08	(a) Both A and R are true and R is the correct explanation of A.
	CASE BASED QUESTIONS
Q 09	(1) **(c)110** (2) **(b)60°** (3) **(a)45°** (4) **(b)90°**
Q 10	(1) **(a)55°** (2) **(d) 18°** (3) **(b)45°** (4) **(a)5°**

NAME OF TEACHER : GAJENDRA SINGH RATHOUR

NAME OF KV   : OKHA

	MULTIPLE CHOICE QUESTIONS
Q1	How many medians can a triangle have? (a) 3 (b) 1 (c) 2 (d)0
Q2	How many altitudes can a triangle have? (a) 2 (b) 3 (c)1 (d)4
Q3	Are the exterior angles formed at each vertex of a triangle equal? (a) YES (b) NO
Q4	 From the above image, find angle x. (a)75° (b) 81° (c) 40° (d) 60°
Q 5	 From the above image, find angle x. (a)75° (b) 81° (c) 40° (d) 60°
Q 6	Is there a triangle whose sides have lengths 10.2 cm, 5.8 cm and 4.5 cm? (a) YES (b) NO
	ASSERTION- REASONING QUESTIONS
Q 07	Assertion: Two angles measures $(a - 60)°$ and $(123 - 2a)°$. If each one is opposite to equal sides of an isosceles triangle, then the value of a is 61°. Reason: Sides opposite to equal angles of a triangle are equal.

	(a) Both A and R are true and R is the correct explanation of A.
	(b) Both A and R are true but R is not the correct explanation of A.
	(c) A is true but R is false.
	(d) Both Assertion and Reason are false
Q 08	Assertion: In ΔABC, D is the midpoint of BC. If DL I AB and DM I AC such that DL = DM, then BL = CM
	Reason: If two angles and the included side of one triangle are equal to two angles
	(a) Both A and R are true and R is the correct explanation of A.
	(b) Both A and R are true but R is not the correct explanation of A.
	(c) A is true but R is false.
	(d) Both Assertion and Reason are false
	CASE BASED QUESTIONS
Q 09	In an exam several figures were given that were asked to students that which type od triangle is given. Below here are given those figures. Identify the type of Triangle in the fgure,

(1) In above figure, the length (in cm) of each side has been indicated along the side. State for the triangle angle whether it is scalene, isosceles or equilateral.
(a) Scalene   (b) Isosceles   (c) Equilateral   (d) none

(2) In the above figure, there is a triangle. The measures of some of their angles have been indicated. State for the triangle whether it is acute, right or obtuse.
(a) Acute triangle   (b) Right triangle (c) Obtuse triangle (d) none

(3) In the above figure, there is a triangle. The measures of some of their angles have been indicated. State for the triangle whether it is acute, right or obtuse.
(a) Acute triangle   (b) Right triangle (c) Obtuse triangle (d) none

(4) In the above figure, there is a triangle. The measures of some of their angles have been indicated. State for the triangle whether it is acute, right or obtuse.
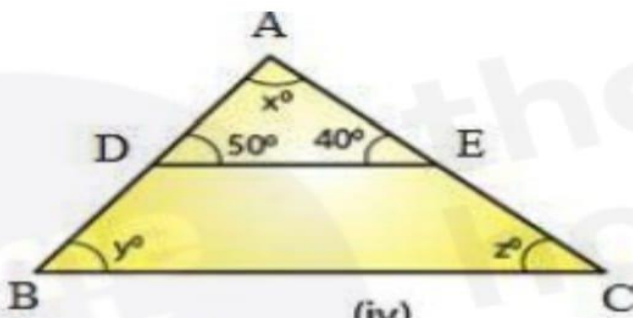(a) Acute triangle (b) Right triangle (c) Obtuse triangle (d) none

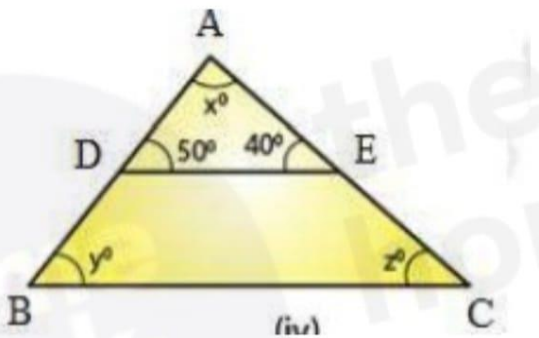| Q 10 | In CBSE Exam,most of the students had difficulty finding value of the angle in questions. Below here are given those figures. Find the angles that is mentioned in the figure (x,y or z). |
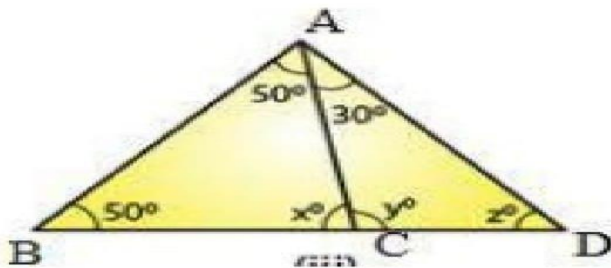
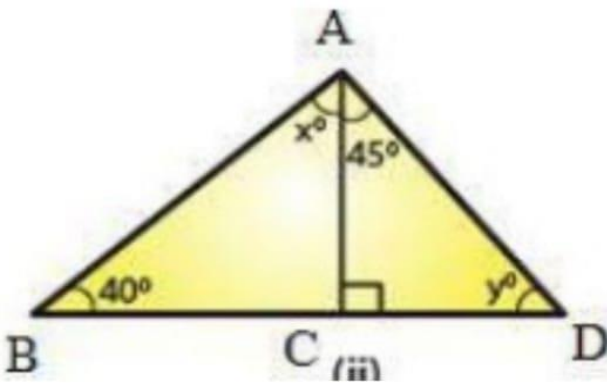(1) Find z from the figure given above.
(a) 45°   (b) 35°   (c) 50°   (d) 60°

(2) Find x from the figure given above.
(a) 45°   (b) 35°   (c) 90°   (d) 60°

A

x°

D 50° 40° E

y°   z°

B   (iv)   C

(3) Find y from the figure given above.
(a) 45°   (b) 50°   (c) 25°   (d) 60°

A

x° 45°

40°

B   C (ii)   D

y°

(4) Find y from the figure given above.
(a) 45°   (b) 35°   (c) 25°   (d) 60°

NAME OF TEACHER : GAJENDRA SINGH RATHOUR

NAME OF KV   : OKHA

KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION
COPETENCY BASED QUESTIONS
CLASS: VII
NAME OF CHAPTER : THE TRIANGLES & ITS PROPERTIES

ANSWERS

MULTIPLE CHOICE QUESTIONS	
Q1	(a) 3
Q2	(b) 3
Q3	(b) NO
Q4	(b) 81°
Q 5	(c) 40°
Q 6	(a) YES
ASSERTION- REASONING QUESTIONS	
Q 07	(b) Both A and R are true but R is not the correct explanation of A.
Q 08	(b) Both A and R are true but R is not the correct explanation of A.
CASE BASED QUESTIONS	
Q 09	(1) (b) Isosceles (2) (b) Right triangle (3) (c) Obtuse triangle (4) (a) Acute triangle
Q 10	(1) (c) 50° (2) (c) 90° (3) (b) 50° (4) (a) 45°

NAME OF TEACHER : GAJENDRA SINGH RATHOUR

NAME OF KV   : OKHA

KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION

COMPETENCY BASED QUESTIONS

CLASS: 7

NAME OF CHAPTER : COMPARING QUANTITIES

	MCQs
Q1	A regular sized Pizza contains capsicum, tomatoes, paneer as toppings. If 57% is capsicum, 13% is tomato, and then what percent are paneer? A. 25% B. 30% C. 30% D. 35%
Q2	The amount of protein in 1kg apples is 25%, then amount of protein does 4kg apples contains:- A. 500 gm B. 250gm C. 1 kg D. 2kg
Q3	After taking a laptop on EMI , Ragini pays Rs.15000 as interest on a sum of 45000 for 5 years, find the rate of interest:- A. 6.66 B. 66.66 C. 60.66 D. 0.66
Q4	If Deepika eats 2 pizza slices of the adjoining figure;What percent of pizza is eaten by Deepika?

A. 25%
B. 20%
C. ¼
D. 1/5

Q 5	In Goyal hospital, a patient pays 5% sales tax in addition to the price of a medicine. Find the price of the medicine, if the patient pays 2100 in all?
	
	    A. 250
	    B. 2500
	    C. 25
	    D. 2100

	VERY SHORT
Q 6	The ratio 5:8 is equal to_____%.
Q 7	If the cost of 12 slime boxes is Rs. 240, then what will be the cost of 8 slime boxes.
Q 8	The literacy rate of Kerala is 94% and of Gujarat is 78%. What is the ratio of the literacy rates of both the states?
	CASE BASED/SOURCE BASED / PASSAGE BASED
Q 09	For a greeting card exhibition, Atul purchased 15 chart papers for Rs.150. For attraction purpose she purchased some smileys of Rs. 50, a glue stick tube costing rs. 20 along with color pens worth rs. 50. She sold all the greeting cards at the price of rs.30 each. Answer the following question:-

1) What is the cost price of all the materials used by her to make the cards?

2) What is the ratio of cost price and selling price for all the cards?

3) What was the profit earned by Atul?

4) What profit % did Atul made?

| Q 10 | Score card of a cricket match played between India and Pakistan is as follows: |

India-300(7)			
Player	R(b)	4s	6s
Rohit Sharma **C Misbah b S Khan**	15(20)	2	0
Shikhar Dhawan **Run out Misbah**	73(76)	7	1
Virat Kohli **C U Akmal b S Khan**	107(126)	8	0
Suresh Raina **C H Sohail b S Khan**	74(56)	5	3
M S Dhoni **C Misbah b S Khan**	18(13)	1	1
Ravindra Jadeja **B Riaz**	3(5)	0	0
Ajinkya Rahane **b S Khan**	0(1)	0	0
R C Ashwin **Not out**	1(1)	0	0
Mohammad Shami **Not out**	3(3)	0	0

On the basis of above score card answer the following questions:

1. Find the ratio of the scores made by S. Raina and the scores made by complete team.
2. How many times of Ravindra jadeja did Rohit Sharma scored?
3. Find the ratio of the scores made by the not out players and the runs scored by team?
4. If strike rate is the ratio of total runs and the total balls played, then find out which player has the best strike rate?

Answer key:

Ques no.	
	MCQ
1	C
2	C
3	A
4	A
5	B
	VERY SHORT
6	62.5%
7	160
8	47:39
	CASE BASED
9	i. 270 ii. 3:10 iii. 180 iv. 66.66%
10	i. 37:150 ii. 5 times iii. 1:75 iv. M S Dhoni(138%)

NAME OF TEACHER : Mrs. Deepika Acharya

NAME OF KV : KV BSF DANTIWADA

KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION

COMPETENCY BASED QUESTIONS

CLASS: 7

NAME OF CHAPTER : RATIONAL NUMBERS

	MCQs
	Different websites offer the same hotel rooms at different prices. A rs.1500 room is available at 4/5 of its original charge on make my trip. Make my trip gives an additional discount equivalent to 1/10 of the room's charge at check out. Goibibo offers the same room at 2/5 of its price with no further discount at checkout.
Q1	At what price is the room offered by make my trip? A. 1120 B. 1200 C. 1280 D. 1080
Q2	At what fraction of the original price is the room offered by make my trip? A. 18/25 B. 36/25 C. 108/1500 D. 1080/150
Q3	Which website offers the room at more economical price? A. Make my trip B. Goibibo C. Both D. Can't say
Q4	How many rational numbers lie between two consecutive whole numbers, a and b? A. 0; because there does not lie any whole number between two consecutive wholenumbers and whole numbers are rational

numbers.

    B. 1; because the number that lies midway between a and b is the only rational number between a and b.

    C. Countless because there exist countless fractions between a and b and all fractions are classified as rational number.

    D. Cannot be determined because the exact values of a and b are not known.

Q 5	Which of the following is the standard form of $\frac{-27}{36}$ A. $\frac{-3}{4}$ B. $\frac{3}{4}$ C. $\frac{-6}{8}$ D. $\frac{6}{8}$
Q 6	If $\frac{-a}{b}$ is a positive rational number greater than 1, what are the possible values of a and b? A. a = 3, b = 5 B. a = −5, b = −3 C. a = −5, b = 3 D. a = −3, b = 5
	VERY SHORT
Q 7	Rahul writes a rational number as $'\frac{4}{m}$. What is the smallest possible value of m, if $\frac{4}{m}$ is a positive rational number?
Q 8	Consider the statements. Statement 1: All natural numbers are rational numbers. Statement 2: All whole numbers are rational numbers. Statement 3: All integers are rational numbers. Which of these statements is/are correct? A. All three statements B. Neither of the statements C. Only Statement 1 and Statement 2 D. Only Statement 2 and Statement 3 E.

	CASE BASED/SOURCE BASED / PASSAGE BASED
Q 9	Once a mathematics teacher took a class test of 17 students, out of which 5 students got good marks as a result teacher bought a dairy milk silk chocolate for them as a reward. The teacher gave 5/12 part to the 1st student, 1/4 to the 2nd student, 1/6 part to the 3rd student, 1/12 to the 4th student and the remaining chocolate to the 5th student, then:- 1. Which student got the most chocolate? 2. Which student got the least chocolate? 3. How much chocolate did the 5th student get? Is the distribution done by teacher justified. 4. Did 5th student get chocolate's part in a rational number form. Justify your answer.
Q 10	Parth goes to a ice cream shop on his birthday and check the price list on the menu card which is as follows:

Flavour	Price per pack
Vanilla	100

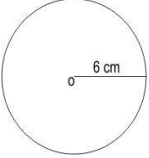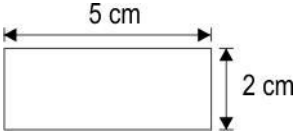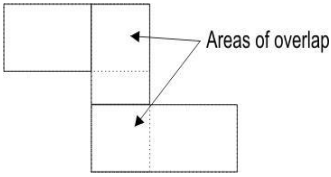|	
Strawberry	110
Mango	120
Black currant	170
Fruit punch	200

1. If Parth buys 2 Vanilla and 1 mango how much amount would he pay to the shopkeeper?
2. How many vanilla can he buy instead of 1 fruit punch.
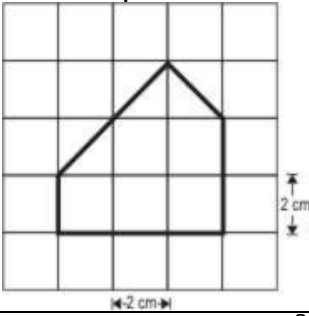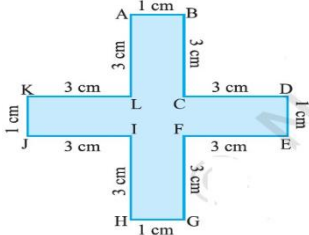3. If parth has 1500 rupees and he buys 1-1 pack of all flavours then what amount is left with him?
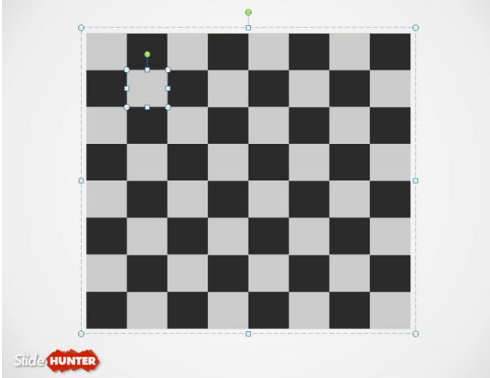
ANSWER KEY:

Q. NO.	
MCQ	
1	D
2	A
3	B
4	C
5	A
6	B
VERY SHORT	
7	1
8	A
CASE BASED	
9	i. 1st student ii. 4th & 5th student iii. 1/12 i.e 1 iv. Yes
10	i. 320 ii. 2 iii. 700

NAME OF TEACHER : DEEPIKA ACHARYA

NAME OF KV　　　： KV BSF DANTIWADA

	CBQ- Class-7 CH- 9 Perimeter and Area
	MCQ
Q.1	How many square strips having an area of 2 sq. cm will be required to cover the rectangular region shown here? (The strips can be cut if required, assume there is no wastage). 8 cm 22 cm
	(a) 30 (b)44 (c)88 (d)354
Ans.	(c) 88
Q.2	In the figure, the inner rectangle is drawn 1 cm inside the outer one. If the outer rectangle has a perimeter of 26 cm, what is the perimeter of the inner one? 6 cm
	(a) 30cm (b) 22cm (c) 20cm (d)18cm
Ans.	(b) 22 cm
Q.3	The largest square piece that can be cut out from a circular piece of paper of radius 6 cm is the one with. 5 cm 2 cm (a) Side 6 cm (b)Perimeter 18 cm (c)Diagonal 12cm (d) Side12cm
Ans.	(c) Diagonal 12cm
Q.4	Yatin takes THREE identical pieces of tape which are shaped like this: Areas of overlap and arranges them like given. What is the area of the new shape thus formed?

	(a)　　30 Sq cm　(b) 26 Sq. cm　(c)22Sq.cm　(d) 21 Sq.cm
Ans.	(c) 22Sq.cm
Q.5	The grid below is made of squares of side 2 cm each. What is the area of the shape drawn on the grid?
	(a)　　13 cm^2　(b) 21.5 cm^2　(c) 26 cm^2　(d) 23 cm^2
	VSA
	Answer the following questions by splitting the following shape into rectangles and square:-
Q.6	Find the perimeter(The measures are given in centimetres):-
Q.7	Find the area(The measures are given in centimetres):-
	Case Based
	A Chess board has the following design:- Each smaller square has sides 3 cm. A margin 1cm wide runs all around the design.
Q.8	How many squares of side 3 cm are there in all ?
Q.9	What is the total area of white squares?
Q.10	Find the area of the margin?

	CBQ- Class-7 CH-10 Algebraic Expressions
	MCQ
Q.1	What is three less than three times an unknown number 'x'?
	(b) x-3 (b) 3x-3 (c) 3(x-3) (d) 3-3x
Ans.	(c) 3x-3
Q.2	Krishna has a silk ribbon. If she was to cut it into 'x' equal pieces, the length of each piece would have been 'a' cm. If Krishna wants 'y' pieces, the length (in cm) of each piece would be
	(c) ay/x (b) xy/a (c) x/ay (d) ax/y
Ans.	(d) ax/y
Q.3	Which of the following can be written as $4a^2$ (a) $a^2 + a^2 + a^2 + a^2$ (b) $4a + 4a$ (c) $4 \times (a + a)$ (d) $4 + a^2$
Ans.	(a) $a^2 + a^2 + a^2 + a$
Q.4	Which of the following is equal to 8a? (a) 8 + a (b) a x a x a x a x a x a x a x a (c) a + a + a + a + a + a + a + a (d) 7a + 1
Ans.	(c) a + a + a + a + a + a + a + a
Q.5	What must be added to 10xy to get 6y? (a) -4x (b) -4xy (c) 6y -10xy (d) It is not possible
Ans.	(c) 6y -10 xy
	VSA
Q.6	Simplify the following expression and then find the numerical value for x =-2
	3 (2x-4) + x^2 + 5
Q.7	To what expression must $99x^3 - 33x^2 - 13x - 41$ be added to make the sum zero?
	Case Based
	Rohan's mother gave him Rs.$3xy^2$ and his father gave him Rs.$5(xy^2 + 2)$.
Q.8	Write an expression to show total money he had?
Q.9	Out of this money he spent Rs.$(10 - 3xy^2)$ on his birthday party. How much money is left with him?
Q.10	If x =30 and y=20 then what is Rohan's saving?

NAME OF TEACHER : HEMLATA KANTHALIYA   **NAME OF KV:** DIU

KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION

COPETENCY BASED QUESTIONS

CLASS: VII

NAME OF CHAPTER : EXPONENTS AND POWERS

	The short notation 10^4 stands for the product $10×10×10×10$. Here '10' is called the base and '4' the exponent. The number 10^4 is read as 10 raised to the power of 4 or simply as fourth power of 10. 10^4 is called the exponential form of 10,000similarly all the numbers can br represented .Below here are given some cases. and express the following in exponent form
Q1	Express the following in exponential form: $6 × 6 × 6 × 6$ (a) 6^4 (b) 4^6 (c) 2^4 (d) 6^3
Q2	Express the following in exponential form: $2 × 2 × a × a$ (a) $(2a)^2$ (b) 2^{4a} (c) $2^4 3_a$ (d) $4a^4$
Q3	Simplify 7^2 X 2^2 (a) 250 (b) 196 (c) 691 (d) 524
Q4	Express 5^2 X 7^2 in single exponential form. (a) 7^3 (b) 7^4 (c) 35^2 (d) 2^{35}
Q 5	Express 128 as power of 2

	(a) 2^6 (b) 2^7 (c) 2^8 (d) 2^9
Q 6	Research says, "Human fingernail grows one nanometre in one second." What would be the approximate growth of the fingernail (in cm) in 24 hours? 1 nm = 10^{-9} (a) 8.64×10^{-3} (b) 8.64×10^{-5} (c) 8.64×10^3 (d) 8.64×10^{11}
Q 07	When a person gets infected or become sick, Doctor advises him for blood test. Pathologist finds the number of cells in per cubic millimeter of blood. His blood report shows the following values - Red blood cells count (RBC). --. 4.45×10^6 per mm ^{3} White blood cells count (WBC) --. 8.9×10^3 per mm ^{3} (Leucocytes) Platelets count --. 3.02×10^5 per mm ^{3} Hemoglobin --. 12.8 GM% Question (1)- The ratio between RBCs and WBCs is (a) 500 : 1 (b) 1 : 500 (c) 550 : 1 (d) 1 : 100 Question (2) - What is the total number of RBCs and Platelets. Question (3) - in the sample, which are more WBCs or Platelets?
Q 08	Mohan divided a sum of rupees into two parts 5^x and 4^x and distributed it between his two sons, Parth and Ankur respectively. The product of 5^x and 4^x is 8000 Question (1)- The amount of money received by Parth a) Rs 1,000 b) Rs 625 c) Rs 500 d) Rs 125 Question (2)-The amount of money received by Ankur a) Rs 16 b) Rs 64 c) Rs 256 d) Rs 512
Q 09	Simplify the following: (i) $10^3 \times 9^0 + 3^3 \times 2 + 7^0$ (a)1055 (b) 1056 (c) 1057 (d) 1058
Q 10	Express 3125 as power of 5 (a) 5^4 (b) 5^5 (c) 5^6 (d)5^7

ANSWERS

1. (a) 6^4
2. (a) $(2a)^2$
3. (b) 196
4. (c) 35^2
5.   (b) 2^7
6. (b) 8.64×10^{-5}
7. 1 (a) 500 : 1 , 2 4.4589×10^6 , 3 Platelets
8.   1. (d) Rs 125   2. (b) Rs 64
9. (a) 1055
10.   (b) 5^5

NAME OF TEACHER : DHARMESH KUMAR PATEL

**NAME OF KV   : KV SILVASSA**

KENDRIYA VIDYALAYA SANGATHAN AHMEDABAD REGION

COPETENCY BASED QUESTIONS

CLASS: VII

NAME OF CHAPTER : SYMMETRY

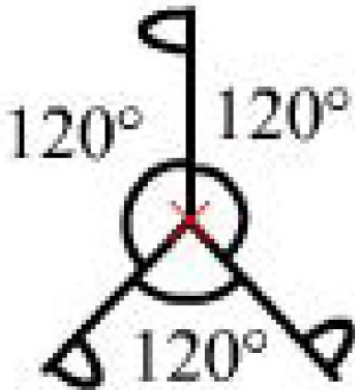|	
	Teacher asked the students about the lines of symmetry that how many can be in a 2-D figures. Answer the following questions given below and tell no. of lines of symmetry.
Q1	How many lines of symmetry does a rectangle have? (a) 4　　　(b) 2　　　(c) 0　　　(d) 1
Q2	How many lines of symmetry does an isosceles trapezium have? (a) 4　　(b) 2　　(c) 0　　　(d) 1
Q3	How many lines of symmetry does a kite have? (a) 4　(b) 2　(c) 0　(d) 1
Q4	How many lines of symmetry does a semi-circle have? (a) 2　(b) 1　(c) 0　(d) 4
	In an exam several figures were given that were asked to students the order of rotational symmetry. Below here are given those figures. Identify the order of rotational symmetry about the marked point (x).
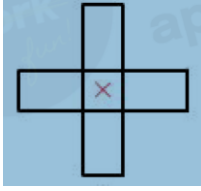
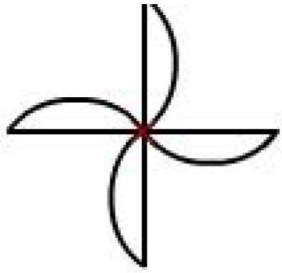|	
Q 5	 From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x). (a) 2　(b) 3　(c) 4　(d) 5
Q 6	 From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x). (a) 2 (b) 3　(c) 4　(d) 5
Q 07	 From the above image, give the order of rotational symmetry for this figure when rotated about the marked point (x). (a) 2 (b) 3　(c) 4 (d) 5
Q 08	

From the above image, give the order of rotational symmetry for this figure

when rotated about the marked point (x).

(a) 2 (b) 3 (c) 4   (d) 5

Q 9	In CBSE Exam,most of the students had difficulty finding order of rotation. Below here are given those figures. Find the order of rotation of the figure.

 1.What is the order of rotation of a square?

(a) 2   (b) 4   (c) 3   (d) 6

2. What is the order of rotation of a rectangle?

(a) 2   (b) 4   (c) 3   (d) 6

3. What is the order of rotation of a rhombus ?

(a) 2   (b) 4   (c) 3   (d) 6

4. What is the order of rotation of a Equilateral triangle?

(a) 2   (b) 4   (c) 3   (d) 6

Q10	In CBSE Exam,most of the students had difficulty whether alphabets have rotational symmetry

or not.. Below here are given those alphabets . Find the answer and mark the correct option.

1. Does English alphabet "Z" has Rotational Symmetry ?

(a) YES (b) NO

2. Does English alphabet "S" has Rotational Symmetry ?

	(a) YES (b) NO
	3. Does English alphabet "H" has Rotational Symmetry ?
	(a) YES (b) NO
	4. Does English alphabet "O" has Rotational Symmetry ?
	(a) YES (b) NO
	5. Does English alphabet "E" has Rotational Symmetry ?
	(a) YES (b) NO

ANSWERS

1. **(B) 2**
2. **(D) 1**
3. **(D) 1**
4. **(B) 1**
5. **(C) 4**
6. **(B) 3**
7. **(B) 3**
8. **(C) 4**
9. **1 (B) 4 , 2 (A) 2 , 3 (A) 2 , 4 (C) 3**
10. **1 (A) YES   2 (A) YES 3(A) YES   4(A) YES   5(B) NO**

NAME OF TEACHER : DHARMESH KUMAR PATEL

NAME OF KV   : KV SILVASSA

	MCQ
Q1	What is the sum of vertices, edges and faces in cube _____. (a) $\frac{13}{2}$ (b) $\frac{26}{2}$ (c) $\frac{36}{9}$ (d) $\frac{52}{2}$
Q2	The number of vertices in pyramid is _____. (a) 4 (b) 5 (b) 3 (d) 6
Q3	If three cubes of dimensions 2 cm × 2 cm × 2 cm are placed end to end, what would be the dimension of the resulting cuboid? (a) 2 cm × 2 cm × 2 cm (b) 2 cm × 6 cm × 2 cm (c) 2 cm × 2 cm × 6 cm (d) 6 cm × 2 cm × 2 cm
Q4	What cross-section do you get when you give a horizontal cut to a die? (a) Square (b) Rectangle (c) Triangle (d) Circle
Q 5	The net for a cylinder without top and bottom is a ……………… (a) Circle (b) Square (c) Rectangle (d) Triangle
Q 6	A prism has ……………… edges. (a) 6 (b) 5 (c) 7 (d) 9
	ASSERTION- REASON / VERY SHORT

Q 07	In the oblique sketch
	
	 (i) The sizes of the front faces and its opposite are not same.
	
	 (ii) The edges ,which are all equal in a cube, appear so in
	
	     the sketch, though the actual measures of edges are
	
	     not taken so.

	(a) Both (i) and (ii) are correct
	(b) (i) is correct (ii) is incorrect
	(c) (ii) is correct but (i) is incorrect
	(d) Both (i) and (ii) are correct.
Q 08	Which of the following claim(s) is/are correct?
	Claim 1: A shoe box is an example of a solid shape because it has some length, breadth and height.
	Claim 2: A rectangle is an example of a plane figure because it has some length and breadth but no height.
	Option 1: Only Claim 1
	Option 2: Only Claim 2
	Option 3: Both Claim 1 and Claim 2
	Option 4: Neither Claim 1 nor Claim 2
	CASE BASED/SOURCE BASED / PASSAGE BASED
Q 09	1. You went to toy shop with your parents and buy a dice,
	(i) What is the shape of your dice? (ii) How many dimentions are there in the dice? (iii) Above dice is made up of _____ small cubes. (iv) If two cubes of dimensions 2 cm × 2 cm × 2 cm are placed end to end, what would be the dimension of the resulting cuboid? (v) How many edges you can see in the above dice ?
Q 10	You go for a trip and see a figure given below

1. What is the shape of above figure?

2. The base of above shape is _____.

3. How many faces are there in above figure?

4. Which of the following is true about the solid above?

    Option 1: It has equal number of faces and vertices.

    Option 2: It has equal number of faces and edges.

    Option 3: It has equal number of vertices and edges.

    Option 4: It has equal number of faces, edges and vertices.

| Q 11 | You visited VR mall Surat last Sunday,

 1. What is the shape of above mall?

 2. The base of above mall is _____.

 3. How many vertices, edges and faces are there in above mall?

 4. What cross-section do you get when you give a horizontal cut to above mall? |

Ans:

1.	(d) $\frac{52}{2}$
2.	(b) 4
3	(d) 6 cm × 2 cm × 2 cm
4.	(a) Square
5.	(c) Rectangle
6.	(d) 9
7.	(c) (ii) is correct but (i) is incorrect
8.	Option 3
9.	(i) cube , (ii) 3, (iii) 4 cm × 2 cm × 2 cm (iv) 27 (v) 12
10.	(i) Pyramid (ii) Square (iii) four (iv) option 1
11.	(i) Cuboid (ii) rectangle (iii) 8, 12 and 6. (iv) rectangle.

NAME OF TEACHER : Aneri Rajput

NAME OF KV   : KV No.2 kribhco Surat