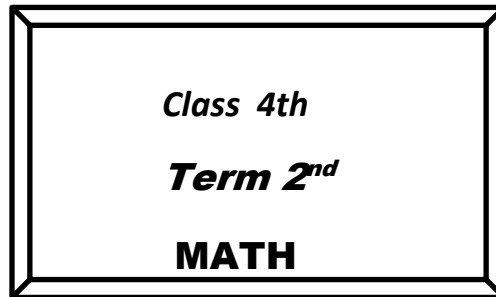


**OFFICE OF THE PRINCIPAL**  
**DISTRICT INSTITUTE OF EDUCATION AND TRAINING**  
**BEERWAH BUDGAM**  
**MODEL QUESTION PAPERS(Math)**  
**FOR**  
**CLASSES FROM 4<sup>th</sup> TO 7<sup>th</sup>**

Total No. of questions: 9

Total No. of pages : 3

Time: 2.30 hrs.



Roll no. ....

Max. Marks ; 40

**Section (A) Objective type 10 Q x 1 M = 10 Marks**

- Q.1. a) AB , CD , EF , ..... (GH , IJ )  
b) 10, 100 , 1000, ..... ( 20000, 10000 )  
c) ..... 20 rupee notes make one hundred rupee note. (4 , 5 )  
d)  $20 \div 5 =$  ..... ( 3 , 4 )  
e) We use ..... to weigh a table. ( Kilogram , gram )  
f) The perimeter of a square with each side 3 cm is ..... ( 12 cm , 9 cm )  
g) The cost of 1 kg of oil is ....., if 500g oil costs Rs. 100 (Rs.200 , Rs. 150 )  
h) The weight of Mobile is ..... than 1 kg . ( more , less )  
i)  $25 \div$  ..... = 5 ( 5. 4 )  
j) 4, 104 , 204 , 304 , .....

**Section (B) Short answer type questions . 5 Q x 3 M = 15 Marks**

Q.2. See the pattern and write two more steps.

$$1 + 2 + 3 + 4 = 10$$

$$2 + 3 + 4 + 5 = 14$$

$$3 + 4 + 5 + 6 = 18$$

.....

.....

Q. 3. Complete the following table .

$1 \times 6$	$2 \times 6$	$3 \times 6$	$4 \times 6$			
6	12	18	24			

Q.4. A family of 6 people needs 60 kg rice for a month. How much rice does this family need for a week?

Q.5. There are 35 students in 7 rows. Each row has the same number of students. How many students are there in each row?

Q.6. The cost of 1 kg of peas is Rs. 40. What is the cost of 100 gram of peas?

**Section ( C ) long answer type questions. 3 Q x 5 M = 15 Marks**

Q.7. A frog jumps 3 steps at a time starting from 0.

Count the jumps he takes to reach 27. ....

He has taken ..... jumps , if he is at 36.

If he is at 42, he has taken ..... jumps.

OR

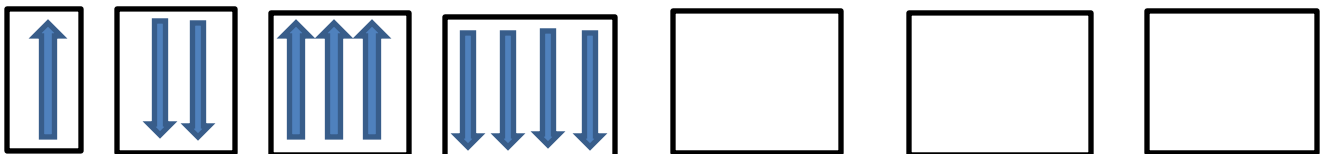
Starting from 0, a rabbit jumps 5 steps at a time.

In how many steps does he reach 25. ....

He reaches .....after taking 8 jumps.

He needs ..... jumps to reach 55.

Q.8. Complete the pattern.



OR

Complete the given pattern

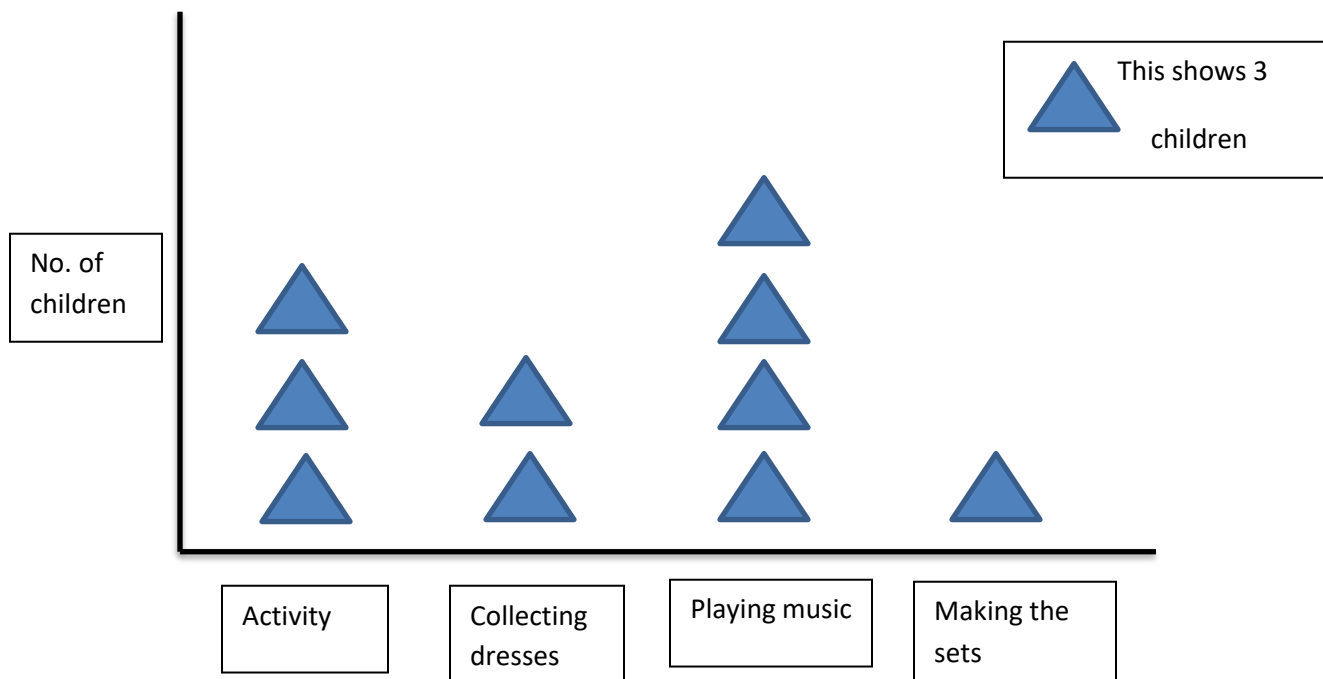
11	+	16	=	27
12	+	15	=	27
13	+	14	=	27

Q.9. See the table and write the weight in kilogram or gram.

<b>Items</b>	<b>Weight</b>	<b>Kg or Gram</b>
Rice	5	
Sugar	1	
Mustard seeds	10	
wheat	3	
Dal	500	
Tea	250	
Pepper	25	

OR

Observe the given chart and answer the following questions.



a. What is the total number of children ?

- b. Which are more, the children making the sets or those acting?
- c. What is being done by most of the children?
- d. How many children are collecting dresses?

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Roll No.....

Total No. of Questions 11

5<sup>th</sup> Mathematics/T2/Modal Paper/2021

**Q1. Write the number names of following numbers: (One is done as hint) 2**

- 820                    Eight hundred twenty
- 409 .....
- 219.....
- 256 .....
- 543 .....

**Q2. Write the numbers in figures: (One is done as hint) 2**

- i. One thousand Two hundred fifteen                    1215
- ii. One hundred nine                    .....
- iii. Five hundred fifty                    .....
- iv. Four hundred forty two                    .....
- v. One thousand Three hundred seventy                    .....

**Q3. Add the following: 2**

2314	8265	7506	1098
+4215	+ 2074	+ 8434	+ 7945
_____	_____	_____	_____

**Q4. Subtract: 2**

7454	6552	5647	7258
-2123	- 2463	- 4723	- 6429
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

**Q5. Encircle the odd Numbers:** 3

17 34 29 81 56 73 45 76 30 75 10 39 75 79 52 48 97 12 38

**Q6. Write the numbers in ascending order:** 3

1233 431 1010 1200 428 509 1375 1000 999 199 85

**Q7. Insert greater than (>), Smaller than (<) and Equal to (=) appropriately:** 3

233.....323

1753.....1741

1436..... 3104

199.....199

543..... 345

833 ..... 1001

**Q8. Write down the factors of given numbers (one is done as an example)** 4

i. 15 (1, 3, 5, 15)

ii. 12 .....

iii. 24 .....

iv. 27 .....

**Q9. First five multiples of 3 are 3,6,9,12,15,** 4

**Write first five multiples of:**


(a) 3

(b) 5

(c) 9

(d) 11

**Q10. Use the pictograph to represent the following data** 4

Class	No of students	Tally Marks
I	15	
II	21	
III	24	

IV	25	
V	32	

**Q9. Fill in the blanks:**

**4**

- (a) An acute angle is more than  $0^\circ$  but less than \_\_\_\_\_
- (b) A \_\_\_\_\_ angle is equal to  $90^\circ$ .
- (c) An obtuse angle is more than  $90^\circ$  but less than \_\_\_\_\_.
- (d) Two right angles are equal to a straight line then straight angles measures exactly \_\_\_\_\_.

**Q10. Ambreen, Mudasir made greeting cards of rectangular shape**

**4**

Complete the table for their cards:

Whose card	Length	width	perimeter	Area
Ambreen	10 cm	8cm		
Mudasir	11cm		44	

**Q11. Write down the multiplication table of 5 and 7 upto the multiplication by 10**

**6**

Roll No .....

Total No. of Questions: 12

Total No. of Pages:

**Class 6<sup>th</sup>  
Term 2<sup>nd</sup>  
MATH**

Series-

Time: 2:30 Hrs.

Max. Marks 40

**Section (A) Objective Type 5Q × 1M = 05 Marks**

Q.No.1. Do as directed:

55

I.  $\frac{55}{66}$  is a: (Choose correct one.)

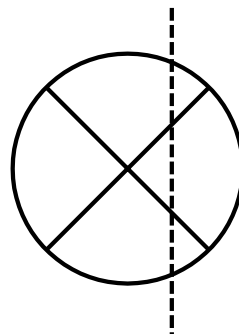
66

- (a) proper fraction
- (b) improper fraction
- (c) mixed fraction
- (d) none of these

II. Which sign makes the statement true?  $0.72 \square 0.79$  ( $>$  or  $<$ ).

III. If  $x - 3 = 1$ , then  $x = 4$  (true or false)

IV. Are the ratios 18:6 and 3:1 equivalent? (Yes or No)



V. Is the dotted line a line of symmetry? (Yes or No)



**Section (B) Very Short Answer type 4Q × 2M = 08 Marks**

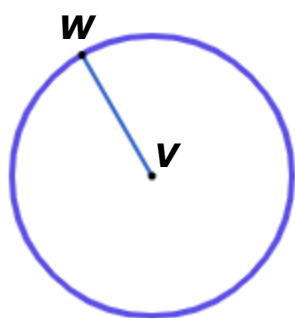
Q. No 2. In 9.63, in which place is the 6.

tenths

hundredths

Q. No. 3. Write the missing number that makes these fractions equal:

$$\frac{11}{22} = \frac{55}{\square}$$



chord

centre

radius

Q. No. 4. What is VW?

Q. No. 5. Complete the ratio table.

3	4
6	8
9	12
12	

**Section (C) Short Answer Type      4Q × 3M = 12 Marks**

Q. No. 6. Solve for y.  $y - 3 = 1$

Q. No. 7. Put these fractions in order smallest to largest.

$$\frac{11}{66}, \frac{5}{66}, \frac{22}{66}, \frac{44}{66}$$

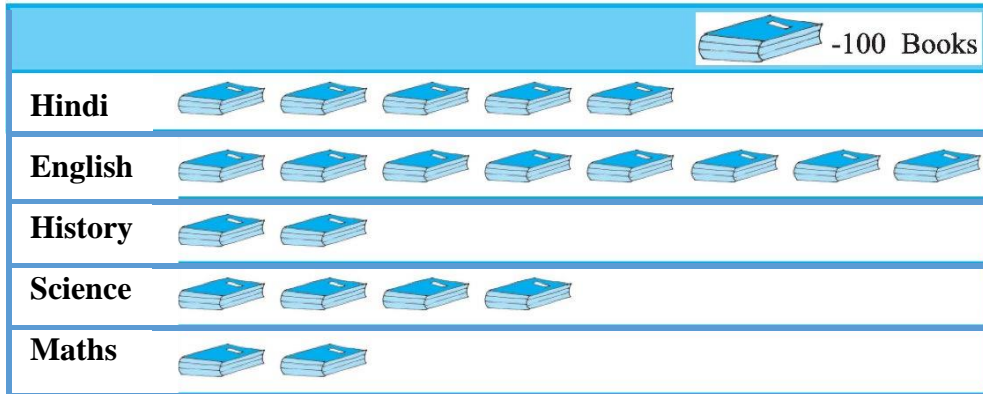
Q. No. 8. Write fourteen hundredths as a decimal number.

Q. No. 9. Write the sentence as an equation.

$x$  minus **33** is equal to **11**.

**Section (D) Long Answer Type Questions 3Q × 5M = 15 Marks**

Q. No. 10. This pictograph shows different subject books which are kept in a library.



- (a) How many English books are there in this library?
- (b) How many Maths books are there?
- (c) Which books are maximum in number?
- (d) Which books are minimum in number?

*Or*

Draw a pictograph for the following information;

Village	No of families
Village 1	100
Village 2	120
Village 3	60
Village 4	200
Village 5	80

Q. No. 11. Draw a line segment of length 9.5 cm and construct its perpendicular bisector.

*Or*

Draw an angle of measure  $45^\circ$  and bisect it.

Q. No. 12. Solve II or m.

(a)  $72 - 60 = 6m$ ,      (b)  $\frac{m}{8} = 8$

*Or*

III the cost of 7 m of cloth is Rs294, find the cost of 5 m of cloth.

# Class 7<sup>th</sup> Mathematics T<sub>2</sub> Model Paper 2021

Time: 2:30 Hrs.

Max. Marks 40

## Section (A) Objective Type      5Q × 1M = 05 Marks

Q.No.1. Do as directed:

(I) There is no line of symmetry in a square. (True/False)

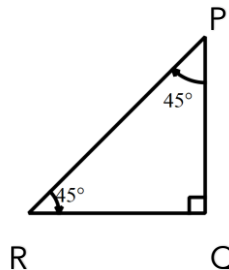
(II)  $(10+10)^0 = \dots\dots$  (Fill in the blanks)

(III) Which of the given measurements of sides/angles of a triangle

$\Delta ABC$  are possible:

- a)  $\angle A = 90^\circ, \angle B = 60^\circ, \angle C = 150^\circ$
- b)  $AB+BC=AC$ , when  $AB, BC$  and  $AC$  are three sides of the triangle
- c)  $\angle A = 30^\circ, \angle B = 60^\circ, \angle C = 90^\circ$
- d)  $AB > BC+AC$ , when  $AB, BC$  and  $AC$  are three sides of the triangle

(IV) Identify the type of triangle:



- a)  $\Delta PQR$  is right-angled only
- b)  $\Delta PQR$  is Obtuse-angled
- c)  $\Delta PQR$  is right-angled isosceles
- d)  $\Delta PQR$  is isosceles

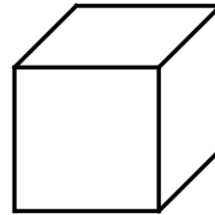
(V) There is only one edge in a sphere.

(True/False)

**Section (B) Very Short Answer type 4Q × 2M = 08 Marks**

Q.No.2. Observe the given figure and answer:

- (I) There are ..... faces in it.
- (II) There are ..... vertices in it.



Q.No.3. Draw a rough sketch of an isosceles triangle its line(s) of symmetry

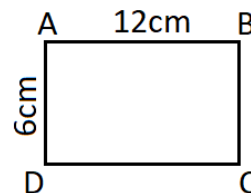
Q.No.4. Find the value of:  $(-3)^2$ .

Q.No.5. Write the numerical coefficients used in:

$$-2x + y$$

**Section (C) Short Answer Type 4Q × 3M = 12 Marks**

Q.No.6. Find the perimeter and area of given rectangle:

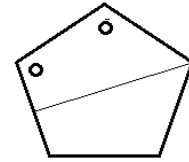


Q.No.7. From the following terms of algebraic expressions, identify:

- (I) Any 3 pairs of like terms
- (II) Any 3 pairs of unlike terms

$$xy^2, \quad 8xy^2, \quad -x, \quad y^2, \quad \frac{1}{2}y^2x, \quad 4x, \quad -\frac{2}{3}xy^2$$

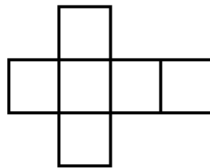
Q.No.8. Below given is a regular pentagon with two punched holes. Draw all lines of symmetry in it along with the other two holes if made after folding the pentagon about the given thin line segment:



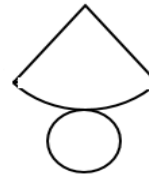
Q.No.9. Write the names of solid figures formed by the given nets;



(I)



(II)



(III)

**Section (D) Long Answer Type Questions 3Q × 5M = 15 Marks**

Q.No.10. Construct an angle of measure  $90^\circ$  using compass and ruler.

Or

Construct  $\Delta ABC$  in which  $AB = 4\text{cm}$ ,  $BC = 5\text{cm}$  and  $AC = 5\text{cm}$

Q.No.11. There is a rectangle with area as  $18x^2y$  square units. Find its any five possible dimensions (Length and Breadth). One is done as an example:

Example: Length:  $18x$                       Breadth:  $xy$

Or

If  $x = -1$ , find the value of;

a)  $-3x^2 + 2x - 3$

b)  $3x + 5$

Q.No.12. Simplify;

$$\frac{7^3 \times [(2)^{-5}]^{-2}}{8^3 \times 7^2}$$

Or

Express the following numbers in standard form:

(I) 390878

(II) 3186500000.45