



INTERNATIONAL
CATS CONTESTS
COMPETENCE & APTITUDE TESTING SERVICES
FASTEST GROWING CONTESTS IN PAKISTAN

2023

**QUESTION
BOOKLET**

**GRADE 5 & 6
JUNIORS**

Time Allowed: 90 Mins.
Maximum Marks: 90

ICATS
MATHEMATICS
CONTEST 2023



ICATS MATHEMATICS CONTEST 2023

JUNIORS (GRADE 5 & 6)

TIME ALLOWED : 90 MINUTES, MAXIMUM MARKS : 90

TOTAL QUESTIONS : 30 MCQS

INSTRUCTIONS

1. DON'T START ATTEMPTING THE PAPER UNTIL INSTRUCTED BY THE INVIGILATORS.
2. INSTRUCTIONS FROM THE EXAMINATION INVIGILATORS MUST BE CARRIED OUT PROMPTLY.
3. CAREFULLY RECHECK YOUR NAME, FATHER NAME, SCHOOL NAME, ADDRESS ETC AT THE BUBBLE SHEET / ANSWER SHEET.
4. RECORD ALL ANSWERS ON THE BUBBLE SHEET ONLY. SELECT BEST ANSWER FROM THE FOUR GIVEN OPTIONS AND MARK ONLY ONE OPTION IN EACH QUESTION.
5. USE BLUE / BLACK INK TO FILL UP THE CIRCLES FOR YOUR ANSWERS ON THE BUBBLE SHEET. USE OF LEAD PENCIL IS NOT ALLOWED.
6. USE OF ANY HELPING MATERIAL INCLUDING CELL PHONES AND ELECTRONIC DEVICES IS STRICTLY PROHIBITED.
7. EVERY CORRECT ANSWER EARNS THREE POINTS. THERE WOULD BE NEGATIVE MARKING. ONE POINT WOULD BE DEDUCTED FOR EVERY INCORRECT ANSWER.
8. CANDIDATES MAY NOT LEAVE THE EXAMINATION ROOM UNESCORTED FOR ANY REASON, AND THIS INCLUDES USING THE WASHROOM.
9. NO MATERIALS OR ELECTRONIC DEVICES SHALL BE BROUGHT INTO THE ROOM.
10. THERE ARE FIVE CATEGORIES OF THE CONTEST AS UNDER:
 - A. TODDLERS (GRADE 1 & 2)
 - B. KIDS (GRADE 3 & 4)
 - C. JUNIORS (GRADE 5 & 6)
 - D. JUVENILES (GRADE 7 & 8)
 - E. ADOLESCENTS (GRADE 9 & 10 / O-LEVELS)
11. REGISTERED STUDENTS CAN PARTICIPATE IN THE CONTEST.
12. NO CANDIDATE SHALL TAKE OUT OF THE HALL ANY ANSWER BOOK(S) OR PART OF AN ANSWER BOOK, WHETHER USED OR UNUSED, OR OTHER SUPPLIED MATERIAL.
13. IF A PARTICIPANT DOES NOT UNDERSTAND A WORD OR PHRASE ON THE EXAM PAPER, NEITHER EXAMINER NOR INVIGILATOR IS PERMITTED TO ANSWER.
14. FOR INFORMATION ABOUT UPCOMING CONTESTS OR PROVIDING VALUABLE FEEDBACK, PLEASE VISIT WWW.CATSCONTESTS.ORG
15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS CONTESTS AT INFO@CATSCONTESTS.ORG

Q1. Fatima was to board a flight at 08:45 hours. Her flight was to take 5 hours 20 minutes to reach the destination, but her flight got delayed by 50 minutes. At what time will Fatima reach her destination now if there is no further delay?

A 12:55 hours

B 13:55 hours

C 14:55 hours

D 15:55 hours



Q2. Your sports teacher has asked you to measure the length of the cricket pitch before starting the match. Which of the following is the appropriate unit of measurement for the length of the cricket pitch?

A kilometer

B meter

C centimeter

D inch



Q3. How do you write this number using digits?

sixty-six million five hundred thirty-six thousand six hundred twenty nine

A 66,536,649

C 66,536,629

B 6,336,629

D 66,526,629



Q4. The following bar graph shows the information about the number of vehicles passing through a toll gate every hour from 8:00 am to 2:00 pm.

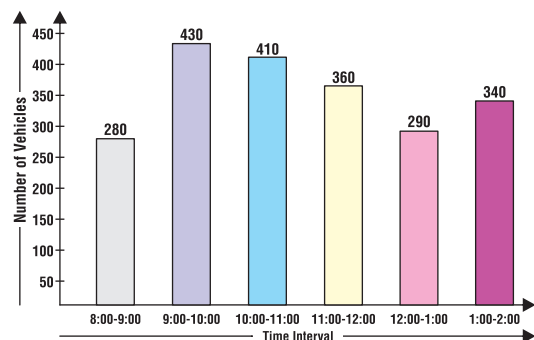
The number of vehicles passed through toll gate from 9:00am to 11:00am is how much more than the number of vehicles passed through toll gate from 11:00am to 1:00pm?

A 170

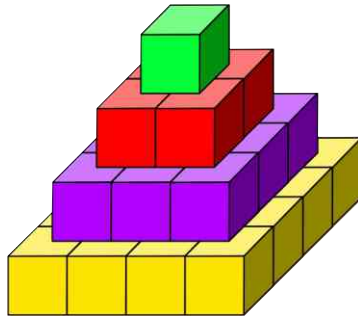
B 180

C 190

D 210



Q5. These ____ are stacked in a ____.



A spheres, row

B cubes, pyramid

C cylinders, square

D cones, pile



Q6. On a map, a distance of 100 cm represents 5km. If a street is 750 m long, what is its length in the map in cm?

A 10

B 15

C 20

D 35



Q7. A cup is $\frac{2}{3}$ full of coffee. What part of the cup must be filled with coffee to make it whole?

A $\frac{2}{3}$

B $\frac{1}{2}$

C $\frac{1}{3}$

D $\frac{3}{2}$

Q8. The restaurant car parking area has 24 parking spots arranged evenly in 8 rows. How many parking spots are in each row?

A 4

B 3

C 2

D 5



Q9. Write the following statement in mathematical term.

3 times M with increase of 15 gives 150.

A $3 \div M + 15 = 150$

C $3 \times M - 15 = 150$

B $3 \times M + 15 = 150$

D $3 \times M \times 15 = 150$



Q10. Last month, The 'TOYS' toy shop sold 210 teddy bears. Using a pictogram, if 1 teddy bear head represents 20 teddy bears, how many teddy bear heads would you use to show this information?

A 10

B 20

C 10.5

D 21



Q11. Anna, Sarah and Victor are building contractors. They built a room 835 centimeters wide. How wide is the room in meters?

A 8.35 m

B 83.5 m

C 835 m

D 8350 m

Q12. Can A contains $2\frac{5}{7}$ of juice and Can B contains $\frac{3}{250}$ ml of juice. If the juice from both Cans is mixed then what will be the total volume of juice in ml?

A 5075 ml

B 5750 ml

C 5.750 ml

D 575 ml



Q13. There are 500 students in a school in which 36% are girls. The difference between the numbers of boys and girls is:

A 140

B 120

C 180

D 320



Q14. What percent of 9 litres is 90 milliliters?

A 0.001

B 0.01

C 0.1

D 1



Q15. The total snowfall for a town from Friday through Sunday was 34 inches.

On Friday, the snowfall was 11.25 inches.

On Saturday, the snowfall was 9.9 inches.

How many inches of snow fell on Sunday?

A 12.85 inches

B 13.15 inches

C 20.34 inches

D 21.15 inches

Q16. Ali has Rs. 2,967.50. Does he have enough to buy an English Bulldog and an Australian Shepherd?

Yorkshire Terrier	Rs. 1,409.26
Akita	Rs. 3,939.89
Australian Shepherd	Rs. 1,950.79
Pomeranian	Rs. 1,941.11
Cavalier King Charles Spaniel	Rs. 1,917.39
English Bulldog	Rs. 1,048.65

A Yes

B No

C He has Rs. 29.94 less amount

D He has Rs. 29.94 excess amount



Q17. Ahmad is 4 years old. His father is 9 times older than him and his mother is 8 years younger than the father. How old is Ahmad's mother?

A 24

B 26

C 28

D 36



Q18. Danish took his mom out to dinner for Mother's Day. He used his credit card to pay Rs. 35.75 bill. The restaurant charges a Rs. 0.50 processing fee to use a credit card. If Danish pays off the balance over the next two months, he will pay Rs. 0.96 in total interest.

If Danish pays off his credit card in two months, how much will he pay in all for the dinner?

A Rs. 37.21

B Rs. 35.75

C Rs. 36.25

D None of these

Q19. Which 'family' of facts is correct?

A

$$\begin{array}{l} 2 \times 3 = 5 \\ 6 \times 2 = 3 \\ 6 \div 5 = 3 \\ 2 \div 3 = 6 \end{array}$$

B

$$\begin{array}{l} 4 \times 5 = 20 \\ 5 \times 4 = 20 \\ 20 \div 4 = 5 \\ 20 \div 5 = 4 \end{array}$$

C

$$\begin{array}{l} 2 \times 8 = 14 \\ 8 \times 2 = 14 \\ 18 \div 2 = 8 \\ 18 \div 8 = 2 \end{array}$$

D

$$\begin{array}{l} 4 \times 9 = 50 \\ 9 \times 4 = 50 \\ 55 \div 4 = 9 \\ 55 \div 9 = 4 \end{array}$$

Q20. Using the digits 1, 2, 3, 4, without repetition, the greatest 4-digit number that can be made is

A 4321

B 4312

C 4213

D 4231

Q21. Can you guess how high is the chimney here?



A about 5 meters

B about 10 meters

C about 50 meters

D about 150 meters

Q22. Answer the question according to the following calendar.

December						
Sun	Mon	Tue	Wed	Thur	Fri	Sat
30	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31	1	2	3

Ahmad is hosting a party on the Saturday between the Christmas day and New Year eve. What is the date for the party?

A 6

B 13

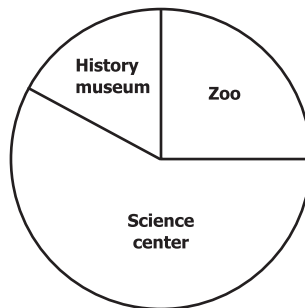
C 20

D 27



Q23. The following circle graph shows the results of a survey of 300 fifth-grade students to find out where they would like to go for their class field trip.

Field Trip Survey Results



How many students would like to go to the zoo?

A 75

B 90

C 100

D 125

Q24. A man is facing towards west and turns through 45° clockwise, again 180° clockwise and then turns through 270° anticlockwise. In which direction is he facing with now?

A West

B North West

C South

D South West



Q25. Amna left for school at 6:25 hours. She returned home 8 h 15 mins later. At what time did she reach home?

A 02:25 hours

B 02:40 hours

C 14:40 hours

D 14:45 hours



Q26. Your exam will start four days from now. Today is Monday. What day will it be?

A Wednesday

B Thursday

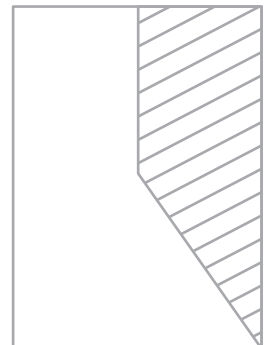
C Friday

D Saturday

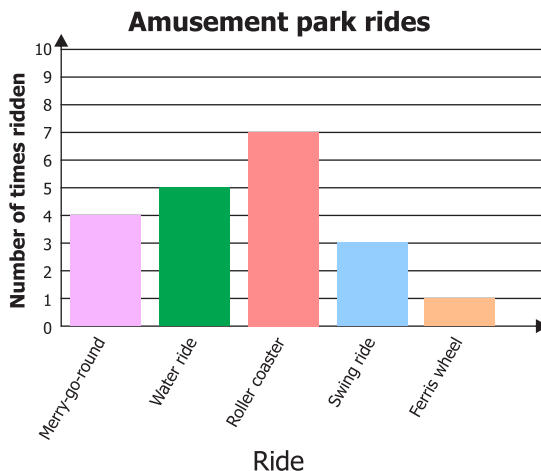


Q27. Part of the rectangle below is shaded. Which of the following pairs of shapes can cover the unshaded part of the rectangle completely without any overlap?

(Not drawn to scale)



- Q28.** Ali visited an amusement park last weekend with his family. The below given bar graph shows the rides Ali went on:



Ali's little sister didn't like the merry-go-round very much, so she went on it half as many times as Ali did. She rode every other ride the same number of times as her brother. In total, how many times did Ali's little sister go on the rides?

- A** 17 times **B** 18 times **C** 19 times **D** 20 times



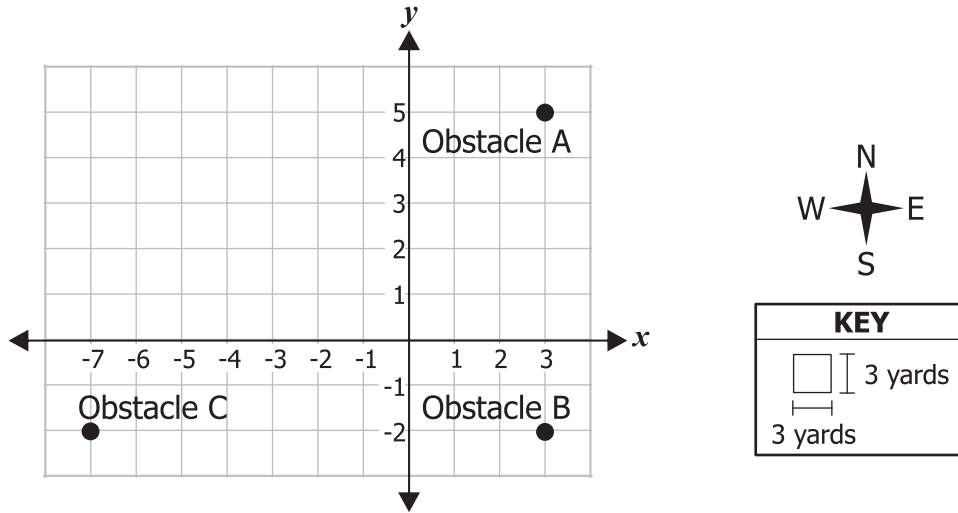
- Q29.** Ali went to buy bricks. The price was given for one thousand bricks. The prices were also different for different types of bricks.

Old bricks	Rs. 1200 for one thousand bricks
New bricks from Lahore	Rs. 1800 for one thousand bricks
New bricks from Kasur	Rs. 2000 for one thousand bricks

Ali decided to buy the new bricks from Kasur. He bought three thousand bricks. How much did he pay?

- A** Rs. 3600 **B** Rs. 4800 **C** Rs. 5400 **D** Rs. 6000

- Q30.** A track coach creates an obstacle course for his team. The coach plots the locations of three obstacles on the coordinate plane shown below.



Each unit on the coordinate plane represents 3 yards. A student starts at Obstacle A, then runs south to Obstacle B and then runs west to Obstacle C. What is the total distance, in yards, the student runs to get from Obstacle A to Obstacle C?

A 45

B 48

C 51

D 54

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National Toppers
ICATS
Art Contest
2023

Student Name	Father Name	Grade	School
ZOHA SUALEH	MIR M. SHAH SUALEH	1	FUTURE WORLD SCHOOL
SHAZIL ASAF	ASAF JAVED	1	ARMY PUBLIC SCHOOL & COLLEGE FOR BOYS
MUHAMMAD WALEE KHAN	FAHEEM ASHRAF	2	NUST CREATIVE LEARNING SCHOOL & COLLEGE
RAYYAN IRFAN	DR. MUHAMMAD YOUSAF	3	DHA JUNIOR SCHOOL
ANABIYA	HUSSAIN ABID	3	APS&C PMA
MAHNOOR	GHULAM MUSTAFA	4	AES SCHOOL FOR GIRLS
MEERAB KHAN	ADNAN ASIF KHAN	5	LAHORE GRAMMAR SCHOOL (JUNIOR SECTION)
MAHEEN MUNIR	MUNIR KHAN	6	FAUJI FOUNDATION SCHOOL
TALHA ALI KHAN	SADAQAT ALI	7	JOINT STAFF PUBLIC SCHOOL & COLLEGE
AREESHA MOBEEN	MOBEEN TAHIR	8	LAHORE GRAMMAR SCHOOL
ASMA NAEEM	NAEEM AMIN	9	ALLAMA IQBAL PUBLIC GIRLS HIGH SCHOOL
SUMERA KHAN	IMRAN KHAN	10	AES SCHOOL FOR GIRLS

Congratulations


National Toppers
ICATS
Creative Writing
Contest
2023

Student Name	Father Name	Grade	School
FAARIS ALI QURESHI	DANYAL QURESHI	1	LAHORE GRAMMAR SCHOOL
KHADIIJA AHSAN	AHSAN MAJEED	2	LAHORE GRAMMAR SCHOOL
ZAYYAN MUSTAFA	QAMAR MUSTAFA	3	ARMY PUBLIC SCHOOL (BOYS & GIRLS)
SIBTAIN ALI KHAN	FAWAD ALI PATHAN	4	PAK-TURK MAARIF INTERNATIONAL SCHOOLS & COLLEGES
SAARIM THARANI	IMRAN NOORALI THARANI	5	AGA KHAN SCHOOL GARDEN
M. AHMED JADOON		6	THE CITY SCHOOL (RAVI CAMPUS)
ARISHA MAZHAR	MAZHAR ALI	7	KOHSAR CHILDREN'S ACADEMY
VERDAH SAHAR USMAN	USMAN TARIQ SHEIKH	7	LAHORE GRAMMAR SCHOOL
SALEHA SHAHID	SHAHID WAHEED	8	THE CITY SCHOOL (PESHAWAR CAMPUS)
HALEEMA USMAN	USMAN AHMED	8	TNS BEACONHOUSE
UMAIMA AIMEN	MUBASHIR MUSTAFA	9	RANGERS PUBLIC SCHOOL
RANIA ZAKIA MALIK	TAHIR NAEEM MALIK	10	ISLAMABAD COLLEGE OF ARTS AND SCIENCES

Congratulations

Compete if you are the best

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