



# INTERNATIONAL CATS CONTESTS

COMPETENCE & APTITUDE TESTING SERVICES

**FASTEST GROWING CONTESTS IN PAKISTAN**

# 2022 QUESTION BOOKLET

**GRADE 3 & 4  
KIDS**

Time Allowed: 75 Mins.  
Maximum Marks: 75



**ICATS  
MATHEMATICS  
CONTEST 2022**

# **ICATS MATHEMATICS CONTEST 2022**

## **KIDS (GRADE 3 & 4)**

**TIME ALLOWED : 75 MINUTES, MAXIMUM MARKS : 75**  
**TOTAL QUESTIONS : 25 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](http://WWW.CATSCONTESTS.ORG)
15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS CONTESTS AT [INFO@CATSCONTESTS.ORG](mailto:INFO@CATSCONTESTS.ORG)

**Q1.** Aisha wakes up at 7:30am. It takes her 50 minutes to get ready. What time is she ready?

**A** 8:20am

**B** 8:30am

**C** 7:50am

**D** 8:00am



**Q2.** If you add 332 to me, I will become 700. Who am I?

**A** 368

**B** 350

**C** 268

**D** 400



**Q3.** Which of these would be measured in kilograms?

**A** The weight of a bag of apples

**C** The volume of water in a glass

**B** The length of a stick

**D** None of these



**Q4.** How many hours and minutes are there from quarter past 5 to half past 8?

**A** 2 hr 30 min

**C** 3 hr 15 min

**B** 3 hr 10 min

**D** None of these

**Q5.** Seema is 7, Krisha is 4 years older than Seema and 5 years younger than Geeta. How old is Geeta?

**A** 14

**B** 16

**C** 11

**D** 13



**Q6.** What number should be subtracted from smallest four digit number to give largest three digit number?

**A** 1000

**B** 100

**C** 10

**D** 1



**Q7.** I thought of a number, I doubled that and added 3. The answer was 45. Which number did I think?

**A** 1

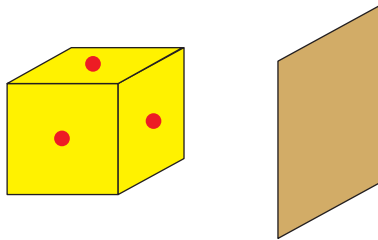
**B** 11

**C** 21

**D** 42

**Q8.** Kajal painted a red dot on each side of a cube. Then, she glued her cube to a piece of cardboard.

How many red dots can be seen on Kajal's cube once it is glued to the cardboard?



**A** 1

**B** 4

**C** 5

**D** 6



**Q9.** Which of the given rules was used for grouping the objects in Group A & Group B?



**Group A**



**Group B**

**A** **Group A:** objects with curved lines

**Group B:** objects that are squares

**B** **Group A:** objects that are foods

**Group B:** objects that are rectangles

**C** **Group A:** objects that are balls

**Group B:** objects with curved lines

**D** **Group A:** objects that are circular

**Group B:** objects with straight lines

**Q10.** Which number would correctly complete the pattern given in columns A and B?

A	B
5	10
10	20
20	40
40	80
80	?

**A** 100

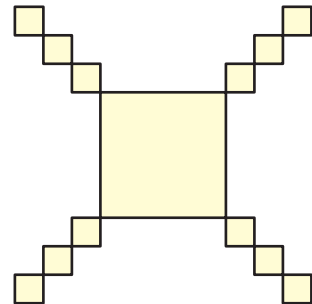
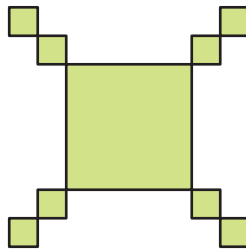
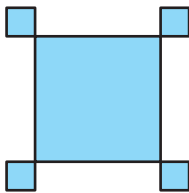
**B** 120

**C** 140

**D** 160



**Q11.** If Karan continues the pattern given below, how many smaller rectangles will there be in the next figure?



**A** 4

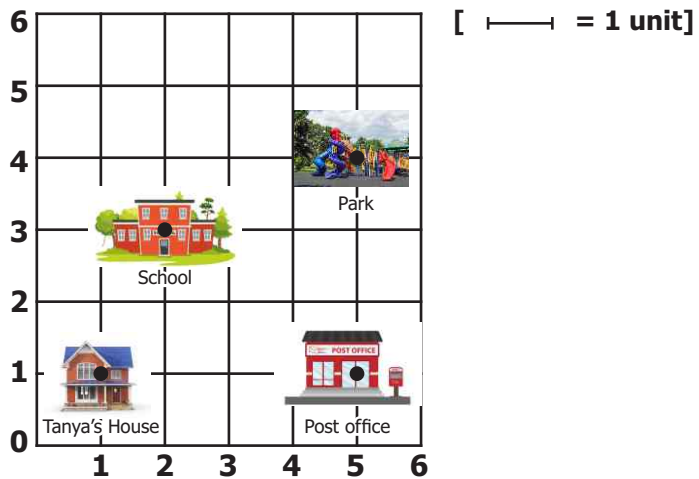
**B** 8

**C** 12

**D** 16

- Q12.** Tanya started walking from her house. On the map, she went right 4 units and then up 3 units.

Which of the following is her location now?



- A** Tanya's House      **B** School      **C** Post office      **D** Park



- Q13.** Which of the following represents the number with value of the digit in the hundred's place greater than the digit in the thousand's place?

**A**

Thousand's	Hundred's	Ten's	One's
○○○	○○○	○○	○○
○○○	○○○	○○	○○

**C**

Thousand's	Hundred's	Ten's	One's
○○○	○○○○	○○○	○○○○○
○○○	○○○○	○○○	○○○○○

**B**

Thousand's	Hundred's	Ten's	One's
○○○○	○○○	○○	○○○
○○○○	○○○	○○	○○○

**D**

Thousand's	Hundred's	Ten's	One's
○○○○	○○○	○○	○○
○○○○	○○○	○○	○○

**Q14.** Mrs. John gave her students the following clues about a mystery number.

- There is a 2 in the one's place.
- There is a 7 in the hundred's place.
- There is a 4 in the ten's place.

What is the number?

**A** 274

**B** 472

**C** 724

**D** 742



**Q15.** How many hours are taken by an hour hand to complete one round?

**A** 10 hours

**B** 12 hours

**C** 24 hours

**D** 21 hours



**Q16.** The pencils represent the fact family given below.

$$3 \times 4 = 12; 12 \div 3 = 4; 12 \div 4 = 3$$

Which of these equations also belongs to this fact family?



**A**  $12 \div 6 = 2$

**B**  $4 - 3 = 1$

**C**  $4 + 3 = 7$

**D**  $4 \times 3 = 12$



**Q17.** If Ali has baseball practice every fourth day in the month of March, starting with March 1, what date will be his last day of practice for the month?

**A** March 28

**B** March 29

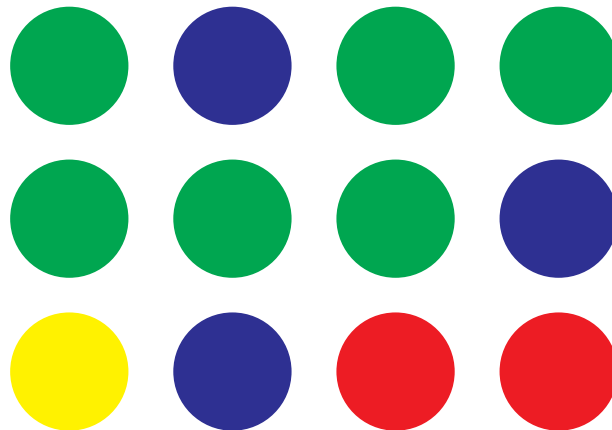
**C** March 30

**D** March 31

MARCH						
S	M	T	W	T	F	S
		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		



**Q18.** Use the picture below to answer the question.



Sam will use one marker to color half of the circles. What is the color of the marker Sam will use?

**A** blue

**B** green

**C** red

**D** yellow

**Q19.** Every week, Milo changes the security code on his computer. He follows these steps to come up with a new code.

**Step 1** He finds the fifth word on the fifth page of that day's newspaper.

**Step 2** He finds the number that goes with each of the letters in that word (A = 1, B = 2, and so on).

**Step 3** He adds all the numbers for the letters in the word. The total number is his security code.

Today, the first sentence on the fifth page is, "The new sculpture made of steel was placed in the town square today."

What is Milo's new security code?

**A** 21

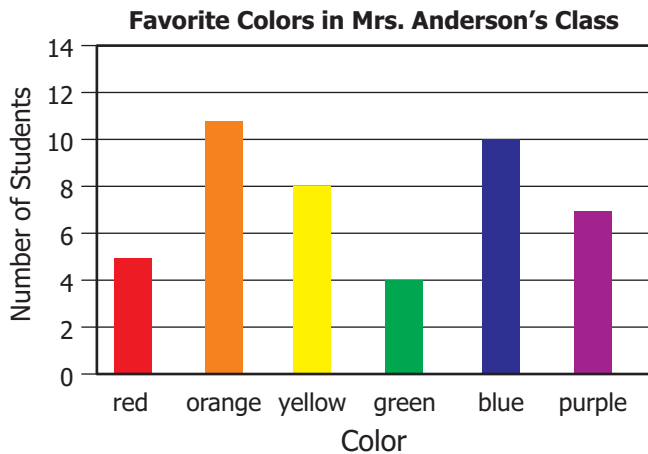
**B** 39

**C** 44

**D** 90



**Q20.** Use the graph below to answer the question.



Mrs. Anderson graphs her students' favorite colors. In art class, the students paint a picture with their favorite color. All bottles of paint have the same amount to start with. Which two colors of paint are likely to run out first?

**A** red and green

**B** red and orange

**C** orange and blue

**D** yellow and purple

**Q21.** Cody rides his bike to the park to meet a friend at noon. Cody arrives at the park at 11:00 a.m. Which question can be answered using this information?

- A** What is the distance between the park and Cody's house?
- B** How long could Cody have to wait for his friend?
- C** How long does Cody stay at the park?
- D** When will Cody leave to go home?

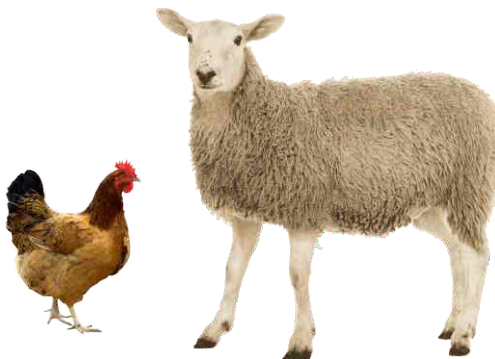


**Q22.** John wants a carpenter to build him a custom bookcase. He wants each shelf to hold 10 books. How many shelves does he need if he has 132 books?

- A** 12
- B** 14
- C** 13
- D** 15



**Q23.** On a farm there were some hens and sheep.



Altogether there were 8 heads and 22 feet.  
How many hens were there?

- A** 3
- B** 4
- C** 5
- D** 6

**Q24.** There are three baskets, a brown one, a red one and a pink one, holding a total of ten eggs.



- The Brown basket has one more egg in it than the Red basket.
- The Red basket has three eggs fewer than the Pink basket.
- How many eggs are there in each basket?

- A** Red 1, Brown 3, Pink 6
- B** Red 2, Brown 4, Pink 4
- C** Red 1, Brown 4, Pink 5
- D** Red 2, Brown 3, Pink 5

**Q25.** In Julie's hall there is a very old clock which lost its hour hand a long time ago.



School finishes at half past three and it takes Julie at least half an hour to get home. Sometimes she goes to the shop on the way, and sometimes she leaves school a bit later. When she first gets home Julie always looks at the clock in the hall to see what time it is.

One week these were the times she saw:



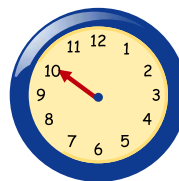
**Monday**



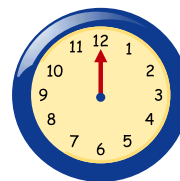
**Tuesday**



**Wednesday**



**Thursday**



**Friday**

On which day did she play with Sam for about half an hour before setting off for home?

**A** Monday

**B** Tuesday

**C** Wednesday

**D** Thursday

**Blank Page**

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National Toppers  
ICATS  
Art Contest  
2022

Student Name	Father Name	Grade	School
HUMNA NADIR	M. NADIR IKRAM	1	FOUNDATION PUBLIC SCHOOL
HAIDER ALI	ALI MUSHTAQ	2	ARMY PUBLIC SCHOOL & COLLEGE
MUHAMMAD YOUSAF	KAMRAN ASHRAF	3	KOHSAR CHILDREN'S ACADEMY
MUHAMMAD ZAID	M. SOHAIB NIZAMI	4	GENERATIONS SCHOOL
HANIA ABID	MRS. ASMA LATIF	5	FATIMA FERTILIZER SCHOOL
RUQAIYAH ALI ASGHER	ALI ASGHER KHAMBATWALA	5	MSB EDUCATIONAL INSTITUTE
RAMISHA ALI	ABID ALI MUGHAL	6	GOVT. QUEEN MARY GRADUATE COLLEGE
SYEDA FATIMA SURIYA	SYED TAHIR HUSSAIN	7	BEACONHOUSE SCHOOL SYSTEM
MANAL ARSHAD	MUHAMMAD ARSHAD	8	HABIB GIRLS SCHOOL
MARYAM SHAHID	SHAHID IQBAL	9	BAHRIA COLLEGE
AREEBA KHAN	DURAZ KHAN	10	PRESENTATION CONVENT HIGH SCHOOL

*Congratulations*

National Toppers  
ICATS  
Creative Writing  
Contest  
2022

Student Name	Father Name	Grade	School
HASSAN WASEEM	M. WASEEM	1	PAKISTAN INT'L PUBLIC SCHOOL
M. AFNAN SUFDER	SUFDER HUSSAIN	2	ARMY PUBLIC SCHOOL AND COLLEGE SYSTEM
FATIMA NOOR	BILAL YOUSAF	3	LAHORE GRAMMAR SCHOOL
M. ABDULLAH HASSAN	RIZWAN AHMAD	3	LAHORE GRAMMAR SCHOOL
SHANZAY ADNAN	ADNAN FAROOQ	3	ARMY PUBLIC SCHOOL
PRAKASH PARKASH	PARKASH LAL	4	THE CITY SCHOOL
DANIYAL SHAHZAD	SHAHZAD ASLAM	5	LAHORE GRAMMAR SCHOOL
HASSAN ALI	IMRAN ALI SHAH	6	ARMY PUBLIC SCHOOL & COLLEGE
MAIDA SOHAIL	SOHAIL AKRAM	7	BEACONHOUSE SCHOOL SYSTEM
ATIYA ATIF	MUHAMMAD ATIF NAZAR	8	ROOTS IVY INTERNATIONAL SCHOOL
AYESHA HAFEEZ	CH. GHULAM HAFEEZ	8	ISLAMABAD COLLEGE OF ARTS & SCIENCES
PARTHAM KUMAR	DOULAT RAM	9	AGA KHAN HIGHER SECONDARY SCHOOL
AMNA HUSNAIN	SYED ALI ZAFAR	10	AES SCHOOL FOR GIRLS
RASIKH JAVED	M JAVED	10	BAHRIA FOUNDATION COLLEGE

*Congratulations*

Compete  
if you are the best