

Question Booklet

GRADE 5 & 6 JUNIORS

Time Allowed: 90 Mins. Maximum Marks: 90



ICATS MATHEMATICS CONTEST 2021 JUNIORS (GRADE 5 & 6) TIME ALLOWED : 90 MINUTES, MAXIMUM MARKS : 90 TOTAL QUESTIONS : 30 MCQS

DON'T START ATTEMPTING THE PAPER UNTIL INSTRUCTED BY THE INVIGILATORS. INSTRUCTIONS FROM THE EXAMINATION INVIGILATORS MUST BE CARRIED OUT PROMPTLY. INSTRUCTIONS

- 1.
- 2
- CAREFULLY RECHECK YOUR NAME, FATHER NAME, SCHOOL NAME, ADDRESS ETC AT THE BUBBLE SHEET / RECORD ALL ANSWERS ON THE BUBBLE SHEET ONLY. SELECT BEST ANSWER FROM THE FOUR GIVEN OPTIONS 3.
- USE BLUE / BLACK INK TO FILL UP THE CIRCLES FOR YOUR ANSWERS ON THE BUBBLE SHEET. USE OF LEAD 4.
- USE OF ANY HELPING MATERIAL INCLUDING CELL PHONES AND ELECTRONIC DEVICES IS STRICTLY 5.
- EVERY CORRECT ANSWER EARNS THREE POINTS. THERE WOULD BE NEGATIVE MARKING. ONE POINT 6.
- CANDIDATES MAY NOT LEAVE THE EXAMINATION ROOM UNESCORTED FOR ANY REASON, AND THIS WOULD BE DEDUCTED FOR EVERY INCORRECT ANSWER. 7.
- NO MATERIALS OR ELECTRONIC DEVICES SHALL BE BROUGHT INTO THE ROOM. 8.
- 10. THERE ARE FIVE CATEGORIES OF THE CONTEST AS UNDER:
- - TODDLERS (GRADE 1 & 2)
 - Α. KIDS (GRADE 3 & 4) B.
 - JUNIORS (GRADE 5 & 6) C.
 - JUVENILES (GRADE 7 & 8) D.
 - ADOLESCENTS (GRADE 9 & 10 / O-LEVELS)
 - 11. ONLY 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,
 - 15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL
 - CATS CONTESTS AT INFO@CATSCONTESTS.ORG



2 of 12

Q4. Ali has crash-landed in the desert.

He knows there's a village somewhere nearby, but he doesn't know in which direction.

So Ali comes up with the following plan to try to find the village:

- He fills up a water bottle from the plane, and takes a compass.
- Then he walks 1 km north, changes direction and walks 1 km east, then changes direction again and walks 1 km south.

Ali doesn't find the village, so he must return to the plane for the night. In which direction must Ali walk to get back to the plane as quickly as possible?



Q5. Liquid is poured from cylinder B into cylinder A until the two cylinders have the same amount of liquid.

How much liquid will each cylinder have?



ICATS Mathematics Contest 2021 (Juniors - Grade 5 & 6)

www.catscontests.org

Q6. Alfonso the ostrich was training for the Head in the in the Animal Olympiad. He put his head in the san morning and reached his new personal record by k for 98 hours and 56 minutes. When did Alfonso put	3 of 12 e Sand Competition d at 8:15 on Monday eeping it underground I his head out of the sand?
A On Thursday at 5:41 A.M.	On Friday at 5:19 A.M. 2021
B ON THURSday at 11:11 A.M.	
Q7. Ahmed ran 10,560 yards.	
How many miles did he run?	
A 0.6 mile B 5 miles C 6 m	iles D 60 miles
+ 3000-	
Q8. The diagram shows two barrels that each contain 4	12 gallons of oil when full.
7 gallons of oil is poured from barrel B into barrel A Image: Constraint of the stress of t	A. To be set of the s





Q14. Count the number of cubes in the given figure. No cube has been removed from parts of the figure that are not visible.





	_		-					क	đ	द	đ	क	δ	द	đ	δ	ወ	đ
Α	5	द				ð	क	द	a	क	δ	द	đ	δ	क	₫	द	व
A	व	ठ			C	व	द	क	б	द	व	δ	क	đ	द	व	क	δ
			1					द	व	δ	Φ	व	द	व	क	σ	द	व
								ত	Ŧ	व	द	व	क	δ	द	व	ত	ф
	-	_	1			_		व	द	व	क	δ	द	व	8	क	व	द
	व	द			D	व	δ	व	क			व	5	क	व	द	व	क
8 व क	U	क	व	ਠ	द	15		क	व	द	व	क	δ	द				
			-			-		व	চ	क	व	द	व	क	δ	द	व	δ
								क	व	द	व	क	5	द	व	3	क	व



Q17. Identify the stamp used for printing the sample (in blue) from the options given below.





Q19. The image below shows a 3D object. Only one of the options shows the same object from a different view. Identify it.





Q20. Shown below is a map of a city with names of prominent localities. A man starts walking from Hampalkatte towards the west, takes the second right, second left, first left, third right, second left, and walks on straight to the end of the street. Where does he reach?





Fatima left home 20 minutes after Ali left. Ahmad left home 18 minutes after Fatima left. At what time did Ahmad leave home this morning?





Q22. A naughty kid plays with a clock kept on a table as shown below. She changes the hour and minute hands clockwise adding 8 hours and 45 minutes to the time and places the clock by rotating 270 degrees anti-clock wise. Identify the option that shows the modified time?





Q23. Front and back views of a solid are shown. Which of the options can be folded to form this solid?



Q24. Shyam runs a dairy. In his cattle herd, each white cow gives 12 litres of milk, each brown cow gives 7 litres of milk and each yellow cow gives 10 litres of milk every day. He has drawn a sketch of his herd which is shown below. Using this sketch, calculate the amount of milk (in litres) produced by his diary per day?







11 of 12

www.catscontests.org

D 825

Q26. Which equation or equations are true?

				tsc
	Equation 1:	$\frac{3}{10} + \frac{15}{100} = \frac{18}{100}$		www.ca
	Equation 2:	$\frac{4}{10} + \frac{32}{100} = \frac{72}{100}$		2021
	Equation 3:	$\frac{7}{10} + \frac{2}{100} = \frac{27}{100}$		
	Equation 4:	$\frac{6}{10} + \frac{27}{100} = \frac{87}{100}$		
A equation 1 only		C	equations 3 and 4 only	/
B equation 2 only			equations 2 and 4 only	,
÷ 3 000				1
Q27. Alina wants to and a pack o wants to buy	to buy a notebook fo f pens for \$3.08. WI ?	or \$2.15, a pack of glue hat is the total cost of t	sticks for \$5.08, he three items Alina	
A \$10.75	B \$10.31	C \$10.23	D \$10.11	L
+000				1
Q28. Fatima want	s to make 100 name	e tags with ribbons atta	ched to them. Each na	me

Fatima wants to make 100 name tags with ribbons attached to the tag requires five centimeters of ribbon. She has 3.25 meters of ribbon. Exactly how many more centimeters of ribbon does Fatima still need to make 100 name tags?

C 325

	ICATS Mathematics	Contest 2021	(Juniors - Grade 5 & 6)
--	-------------------	--------------	-------------------------

B 305

A 175



	Student Name	Father Name	Grade	s School
NT . 1 H	MUNTAHA ABASSI	MUNEER AHMED	1	PAKTURK MAARIF INTERNATIONAL SCHOOL
National loppers	EMAAN FATIMA NAQVI	SYED ARIF HUSSAIN	2	ARMY PUBLIC SCHOOL AND COLLEGE
	MUHAMMAD UMAIR	YOUNAS MUHAMMAD MUGHAL	3	BEACONHOUSE SCHOOL SYSTEM
ICATS	AHMED KHAN	M. BILAL KHAN	4	KARACHI CAMBRIDGE SCHOOL
1	FABIHA RASHID	M. RASHID	5	LAHORE GRAMMAR SCHOOL
ART	AYESHA ARSHAD	RANA M. ARSHAD	6	PAKISTAN INTERNATIONAL PUBLIC SCHOOL
a di seconda	AREEBA AHMAD	MATEEN AHMED	7	KIPS SCHOOL
Contest	MANAHIL AHMED	KHAWAJA MUSHTAQ AHMED	8	USMAN PUBLIC SCHOOL SYSTEM (CAMPUS 14)
	SHIFA NOORANI	SIRAJ NOORANI	9	LEADERSHIP SCHOOL
2020	ESHA SALMAN	MUHAMMAD SALMAN BUTT	10	THE EDUCATORS
	Student Name	Father Name	Grade	e School
	ALIYA HASNAIN	HASNAIN NAQVI	1	LAHORE GRAMMAR SCHOOL
National Tonners	AHMED KAMAL	MAJ. MUHAMMAD KAMAL	2	ARMY PUBLIC SCHOOL
i acional toppers	BURHANUDDIN	M. HUSAIN KOTHARI	2	MSB EDUCATIONAL INSTITUTE
ICATS	AMNA AZEEM	MUHAMMAD FAISAL	3	THE LEARNING CASTLE SCHOOL
10/110	ZARA KHALID	KHALID HAKIM	4	USMAN PUBLIC SCHOOL SYSTEM (CAMPUS 14)
Creative Writing	HARIS A	ANWAR	5	PESHAWAR MODEL SCHOOL
Cicative writing	KHADUA HASNAIN	HASNAIN QADRI	6	LAHORE GRAMMAR SCHOOL
Contest	MERAL AZMAT	AZMAT KHAN	7	BEACONHOUSE SCHOOL SYSTEM
Contest	AMINA NOOR	MUHAMMAD JAHANGIR	8	FAULI FOUNDATION MODEL SCHOOL
2020	INSHAL	ISRAR KHAN	9	KOHINOOR GRAMMAR SCHOOL
2020	AREESHA IMTIAZ	IMTIAZ ALI	10	HABIB GIRLS' SCHOOL
	G	\sim		

Compete íf you are the best