

# NATIONAL MATHEMATICS CONTEST

## KIDS (GRADE 3 & 4)



INTERNATIONAL  
**CATS CONTESTS**  
COMPETENCE & APTITUDE TESTING SERVICES

# NATIONAL MATHEMATICS CONTEST

## 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. WRITE YOUR NAME, FATHER NAME, SCHOOL NAME, ADDRESS ETC AT THE BUBBLE SHEET ONLY.
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 UNSCORTED FOR ANY REASON, AND THIS INCLUDES USING THE WASHROOM.
9. THERE ARE SIX 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)
  - F. SENIORS (GRADE 11 & 12 / A-LEVELS)
10. ONLY REGISTERED STUDENTS CAN PARTICIPATE IN THE CONTEST.
11. 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.
12. IF A PARTICIPANT DOES NOT UNDERSTAND A WORD OR PHRASE ON THE EXAM PAPER, NEITHER EXAMINER NOR INVIGILATOR IS PERMITTED TO ANSWER.
13. FOR INFORMATION ABOUT UPCOMING CONTESTS OR PROVIDING VALUABLE FEEDBACK, PLEASE VISIT [WWW.CATSCONTESTS.ORG](http://WWW.CATSCONTESTS.ORG)
14. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS CONTESTS AT [INFO@CATSCONTESTS.ORG](mailto:INFO@CATSCONTESTS.ORG)

**Q1.** There were originally 280 houses in an area. During a housing boom, developers built 145 more, how many houses are there now in that area?

**A** 135

**B** 145

**C** 425

**D** 525

**Q2.** What is the difference between the largest and the smallest 4-digit numbers that are formed by the four numbers 3, 6, 8 and 0 where each number must be used once and only once?

**A** 6522

**B** 5562

**C** 4950

**D** 4008

**Q3.** If  $\star \times \star \times \star = 125$ , then  $\star \times 8 = ?$

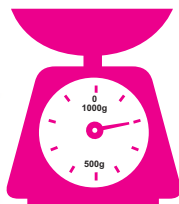
**A** 32

**B** 40

**C** 64

**D** 80

**Q4.** As in the figure below, the right scale has the chicken and the plate and the left scale has only the plate. How much does the chicken weigh?



Just the Plate

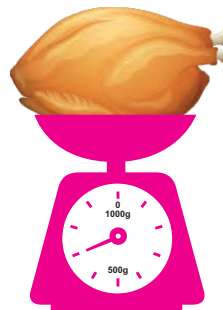


Plate with Chicken

**A** 600 grams

**B** 0.5 kilograms

**C** 5.5 kilograms

**D** 700 grams



**Q5.** Anna is going to a shopping mall to shop for baby items. She goes up from the 2nd Floor taking the escalator. If it takes the escalator 36 seconds to go from 1st Floor to 3rd Floor, how long would it take for Anna to reach 10th Floor?

**A** 96 Seconds

**B** 122 Seconds

**C** 144 Seconds

**D** 162 Seconds

**Q6.** A restaurant bought 90 kilograms of rice in which 24.5 kilogram of rice were used during the first day and 17.6 kilograms were used in the second day. How much rice is left after two days?

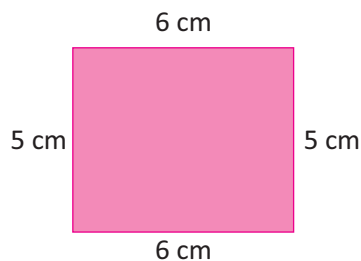
**A** 64.2

**B** 54.6

**C** 47.9

**D** 42.8

**Q7.** What is the perimeter of the rectangle?



**A** 11 cm

**B** 22 cm

**C** 30 cm

**D** 33 cm

**Q8.** A farmer's irrigation system has plastic and metal pipes. He built it with a total of 811 pipes. If he used 142 plastic pipes, about how many metal pipes did he use? Choose the better estimate.

**A** 669

**B** 953

**C** 996

**D** None of these

**Q9.** Suppose there is a bottle that contains 6 liters of Canola oil. If  $4\frac{1}{8}$  liters were used after one week and  $3\frac{3}{8}$  liters were refilled, how much Canola oil does this bottle has now?

**A**  $6\frac{1}{4}$  liters

**B**  $5\frac{1}{4}$  liters

**C**  $5\frac{1}{8}$  liters

**D**  $4\frac{3}{4}$  liters

**Q10.** A consultant working with a candy factory requested information on the amount of taffy made each day.

Taffy made	
Day	Number of pieces of taffy
Saturday	2,691
Sunday	2,911
Monday	2,961
Tuesday	2,261

On which day did the factory make the least taffy?

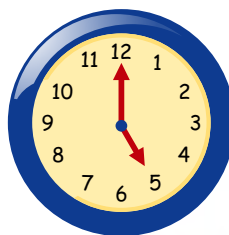
**A** Saturday

**B** Sunday

**C** Monday

**D** Tuesday

**Q11.** When a clock shows exactly 5 o'clock, how large is the angle formed by the hour and minute hands ?



**A**  $150^\circ$

**B**  $120^\circ$

**C**  $100^\circ$

**D**  $180^\circ$

**Q12.** A university bookstore ordered 32 shipments of notebooks. There were 58 notebooks in each shipment. About how many notebooks did the bookstore order in all? Choose the better estimate.

**A** 1756

**B** 1806

**C** 1856

**D** 1956

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**Q13.** In a flat complex, there are 3 windows in each flat, and 4 flats on each floor. How many windows are there on 2 floors?

**A** 22

**B** 24

**C** 26

**D** 28

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**Q14.** The 4th Grade of school has 8 classes and 24 students in each class. Its 3rd Grade has 12 classes with 30 students in each class. How many more students does 4th Grade have than 3rd Grade?

**A** 154

**B** 168

**C** 172

**D** 176

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**Q15.** Ayesha is going to make chilli for a football party. It will take 15 minutes to prepare all the ingredients and assemble them in the pot. Then, the chilli will need to simmer for 1 hour and 5 minutes. What is the latest time Ayesha can start preparing the ingredients if the chilli needs to be ready at 12:20 P.M.?

**A** 10 A.M.

**B** 10 P.M.

**C** 11 A.M.

**D** 11 P.M.

**Q16.** How much money does Javeria need to buy a ceramic vase and 7 silver coat racks?

Crystal vase	Rs.56.00
Silver Coat Rack	Rs.78.00
Ceramic Vase	Rs.26.00
Rug	Rs.43.00

**A** 520

**B** 546

**C** 556

**D** 572

**Q17.** Naila kept track of the trick-or-treaters who came to her door and found that  $\frac{1}{5}$  were dressed as ghosts and  $\frac{1}{5}$  were dressed as witches. What fraction of the trick-or-treaters were dressed as either ghosts or witches?

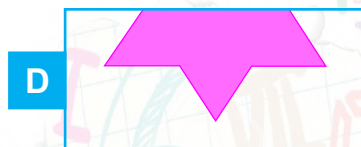
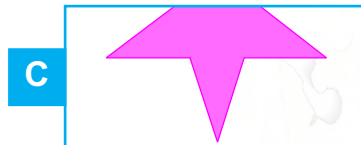
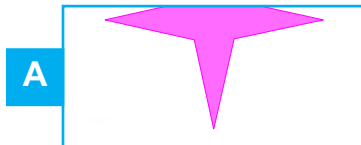
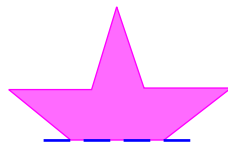
**A**  $\frac{1}{5}$

**B**  $\frac{2}{5}$

**C**  $\frac{3}{5}$

**D**  $\frac{4}{5}$

**Q18.** Which of the following would complete the figure so that it becomes a five-pointed star?

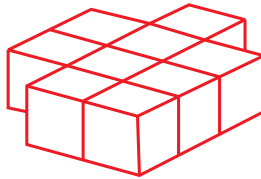




**Q19.** Captain cook has 720 boxes of gold to share between nine pirates. How many boxes will each pirate get if they are divided equally?

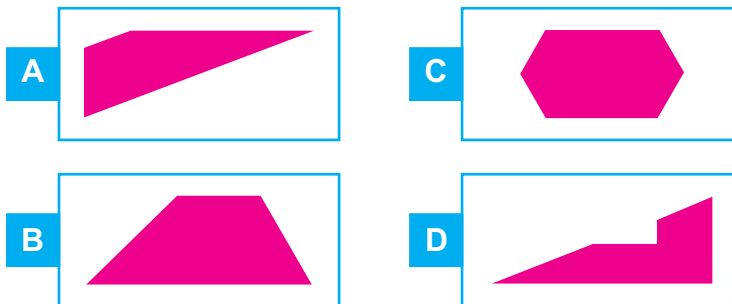
- A** 60      **B** 70      **C** 80      **D** 90
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**Q20.** Nine blocks have been glued together, as shown in the diagram. How many blocks have exactly 3 faces that have glue on them?



- A** 0      **B** 1      **C** 2      **D** 3
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**Q21.** Which shape has a right angle?

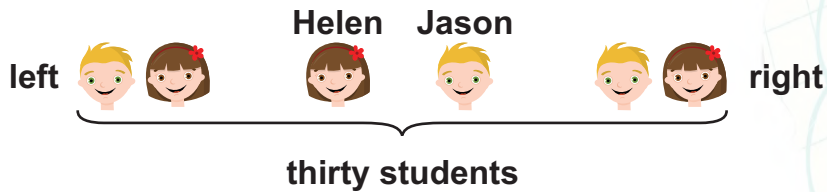


**Q22.** You go to the gym 5 times each week. Which of the following is closest to the number of times you will go to the gym over a period of 6 months?

- A** 200 times      **B** 800 times      **C** 130 times      **D** 150 times

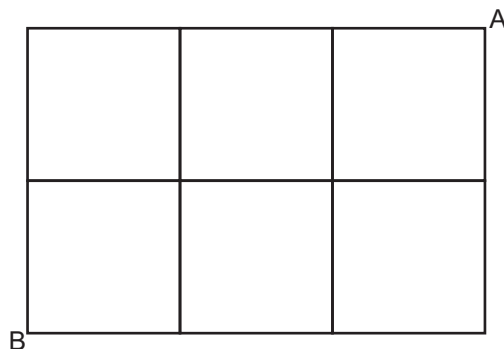


- Q23.** *Thirty students are lining up side by side. Counting from left to right, the 12th person is Jason. If Helen is standing on Jason's right hand side next to Jason, what is Helen's count if we count it from right to left?*



- A** 19th Place    **B** 20th Place    **C** 23rd Place    **D** 24th Place

- Q24.** *In the city of Neopolis, all streets are parallel or perpendicular. The distance between two consecutive parallel streets is 100 m.*



**How many different 500 m routes are there to get from point A to point B?**

- A** 10    **B** 11    **C** 12    **D** 13

- Q25.** *The largest 3-digit even number that can be formed using the digits 7, 5 and 4 only once is*

- A** 754    **B** 745    **C** 457    **D** 574