INTERNATIONAL
CATS CONTESTS
COMPETENCE & APTITUDE TESTING SERVICES

ICATS MATHEMATICS CONTEST 2018

GRADE 3 & 4
KIDS

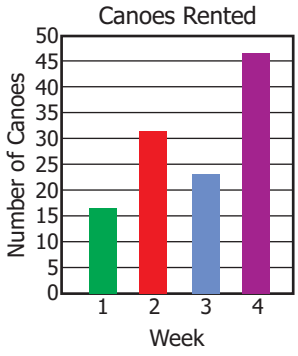
ICATS MATHEMATICS CONTEST 2018
KIDS (GRADE 3 & 4)

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. 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, PLEASE VISIT WWW.CATSCONTESTS.ORG
15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS CONTESTS AT INFO@CATSCONTESTS.ORG

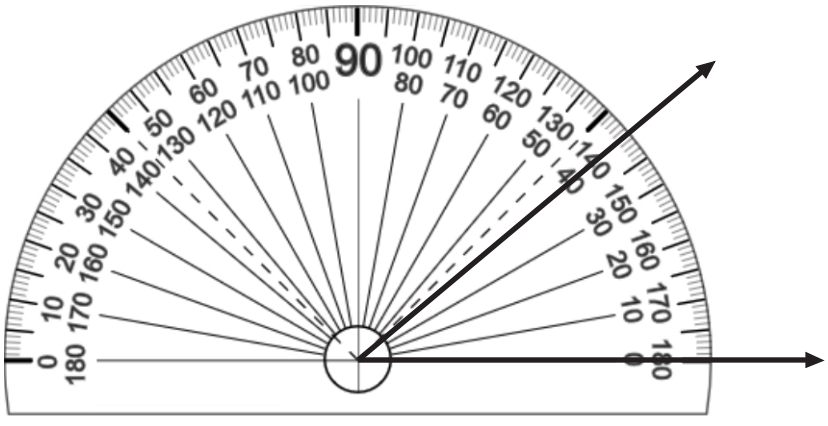
Q1. **The graph below shows the number of canoes / boats rented at a lake.**



According to the graph, about how many more canoes were rented in Week 4 than in Week 1?

A 30 **B** 40 **C** 50 **D** 70

Q2. **Devon drew an angle, as shown below.**



Sarah drew an angle that was twice the measure of Devon's angle. Which of these shows the measure of Sarah's angle?

A 20° **B** 70° **C** 80° **D** 280°

Q3. **The table below shows the total number of servings of cereal in different numbers of boxes.**

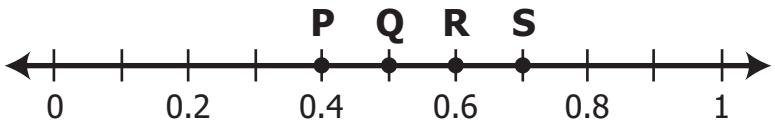
Boxes of Cereal

Number of Boxes	Total Number of Servings
1	8
2	16
3	24
4	32

According to the pattern in the table, what is the total number of servings of cereal in 9 boxes?

A 40 **B** 48 **C** 64 **D** 72

Q4. **The points labeled on the number line below represent decimal numbers.**



Which point represents a decimal greater than 0.45 but less than 0.55?

A Point P **B** Point Q **C** Point R **D** Point S

Q5. **Marco wants to save $75 to buy a tennis racket. If he saves $5 each week, how many weeks will it take Marco to save $75?**

A 80 weeks **B** 70 weeks **C** 15 weeks **D** 11 weeks

Q6. **The figures below follow a pattern.**

The pattern will continue in the same way. Which figure should come next?

A 

B 

C 

D 

Q7. **Quinlyn described a number using these clues.**

- The value of the digit 7 is (7 × 10).
- The value of the digit 3 is (3 × 1,000).
- The value of the digit 1 is (1 × 100).

Which number could fit Quinlyn's description?

A 3,175.02 **B** 93,075.01 **C** 3,651.70 **D** 9,372.01

Q8. **Landry drew a flag with exactly one pair of perpendicular sides. Which of these could be the shape of the flag?**

A Right triangle **B** Acute triangle **C** Rectangle **D** Square

Q9. **Kristine has a $10 bill to spend at a book fair. She buys one book for $4.95, two bookmarks for $0.65 each, and a key chain for $1.85. How much change should Kristine receive from her $10 bill?**

A $2.55 **B** $2.10 **C** $3.45 **D** $1.90

Q10. **A dictionary has a mass of about 2.5 kg. Which object has a mass closest to the mass of a dictionary?**

A Bicycle **B** Pair of boots **C** Refrigerator **D** Bag of chips

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Q11. **The table shows the number of cartons of milk the school cafeteria sold each day last week.**

Milk

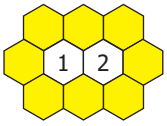
Day	Number of Cartons Sold
Monday	352
Tuesday	426
Wednesday	449
Thursday	373
Friday	402

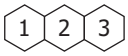
Which of these is the best estimate of the number of cartons of milk the cafeteria sold last week?

A 400 **B** 1,800 **C** 2,000 **D** 2,500

Q12. **There are 6 honeycomb cells around 1 cell.**
There are 8 honeycomb cells around 2 cells.

How many cells are around a row of 3 cells?





A 9 **B** 12 **C** 11 **D** 10

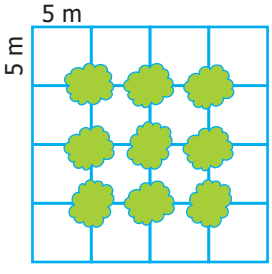
Q13. **Find the sum of the two smallest numbers in a row.**

4	6	8	2	7
7	3	4	1	0
6	9	4	3	2
5	5	7	7	2
6	7	8	9	2

A 0 **B** 1 **C** 3 **D** 2

Q14. **Picture shows a plan of a square garden. The distance between apple trees is 5 meters. The distance between a tree and the fence around the garden is 5 meters.**

Find the area of the garden.



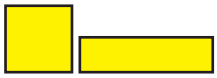
A 225 square meters **B** 440 square meters

C 500 square meters **D** 400 square meters

Q15. **Which two shapes could be placed together to form the rectangle?**

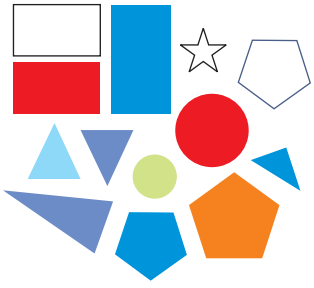
A 

B 

C 

D 

Q16. **Which shape appears most often in the figure?**



A Pentagon

B Rectangle

C Circle

D Triangle

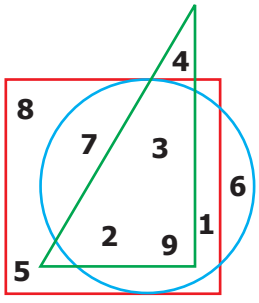
Q17. **Which numbers are inside the square and inside the circle but not inside the triangle at the same time?**

A 5 and 8

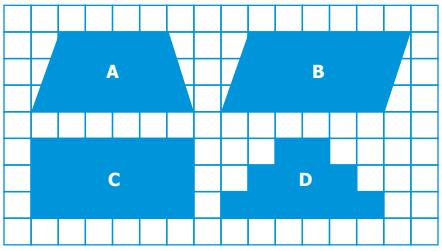
B 1, 6 and 7

C 2, 3 and 9

D 1 and 7



Q18. **Which of the shapes has the largest perimeter?**



A D **B** A **C** C **D** B

Q19. **There are eight buckets: four of them are filled with water.**

What is the smallest number of buckets that I can move to make the pattern: full bucket, empty bucket, full bucket, empty bucket, etc.?

A Six **B** Three **C** Four **D** Two

Q20. **John ate a piece of a pizza and left the rest for his friends, Jim and Jack. The diagram shows the amount of pizza Jim and Jack equally shared. Who ate the smallest amount of the pizza?**

A Three boys ate the same amount of pizza

B Jim

C Jack

D John

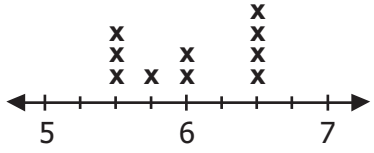
Q21. **Eric measures 10 leaves with a ruler. He records the lengths as shown.**

Lengths of Leaves (inches)

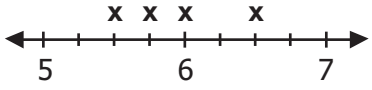
$5\frac{1}{2}$, $6\frac{1}{2}$, $6\frac{1}{2}$, 6, $5\frac{3}{4}$, $5\frac{1}{2}$, 6, 6, $5\frac{1}{2}$, 6

Which line plot shows the lengths of the leaves recorded correctly?

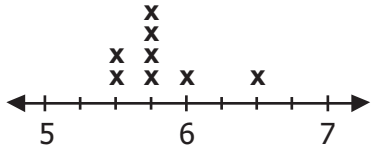
A



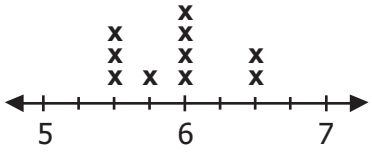
B



C



D



Q22. **27 students want to join teams for relay races. Each team must have 4 students. How many complete teams can be made? Would any students be left out, if any?**

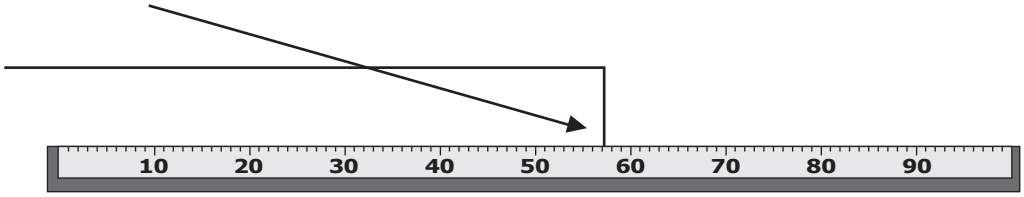
A 5 complete teams with 2 students left out

B 6 complete teams with 3 students left out

C 7 complete teams with 0 students left out

D 8 complete teams with 3 students left out

Q23. **Beth was using meter sticks to measure a long table in her classroom. She put the meter sticks end to end three times. The third meter stick went over the edge of the table like this. How long was her table?**



A 3 Meters **B** 58 Centimeters **C** 58 Meters **D** 2 Meters 58 Centimeters

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Q24. **Mary has a piano recital on May 25. Today is April 28. How long must she wait before the recital day?**

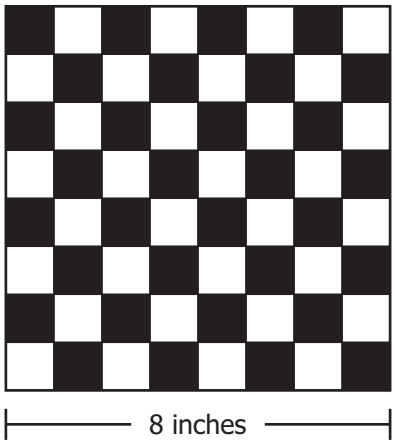
APRIL						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4	5	6
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30				

MAY						
Sun	Mon	Tue	Wed	Thu	Fri	Sat
			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	

A 3 weeks 2 days **B** 3 weeks 6 days **C** 4 weeks 2 days **D** 4 weeks 3 days

Q25. **A drawing of a square checkerboard is shown.**

Checkerboard



The length of each side of the checkerboard is 8 inches. All of the black and white squares are the same size. What is the perimeter of one of the black squares on the checkerboard?

A 1 inch

B 4 inches

C 32 inches

D 64 inches

Compete
if you are
the best

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