

INTERNATIONAL CATS CONTESTS COMPETENCE & APTITUDE TESTING SERVICES



ICATS MATHEMATICS CONTEST 2018

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GRADE 7 & 8 JUVENILES

ICATS MATHEMATICS CONTEST 2018 JUVENILES (GRADE 7 & 8) TIME ALLOWED : 90 MINUTES, MAXIMUM MARKS : 90 TOTAL QUESTIONS : 30 MCQS

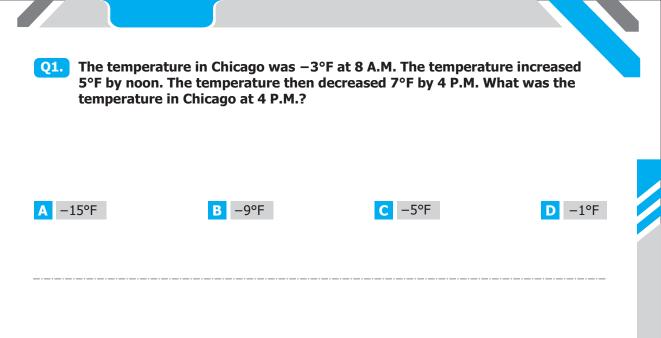
1. DON'T START ATTEMPTING THE PAPER UNTIL INSTRUCTED BY THE INVIGILATORS. INSTRUCTIONS FROM THE EXAMINATION INVIGILATORS MUST BE CARRIED OUT PROMPTLY. WRITE YOUR NAME, FATHER NAME, SCHOOL NAME, ADDRESS ETC AT THE BUBBLE SHEET INSTRUCTIONS

- 2. 3.
- RECORD ALL ANSWERS ON THE BUBBLE SHEET ONLY. SELECT BEST ANSWER FROM THE FOUR (ANSWER SHEET) ONLY. USE BLUE / BLACK INK TO FILL UP THE CIRCLES FOR YOUR ANSWERS ON THE BUBBLE SHEET. USE
 - Δ.
 - 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 6. PROHIBITED. CANDIDATES MAY NOT LEAVE THE EXAMINATION ROOM UNESCORTED FOR ANY REASON, AND
 - POINT WOULD BE DEDUCTED FOR EVERY INCORRECT ANSWER. 7.
 - NO MATERIALS OR ELECTRONIC DEVICES SHALL BE BROUGHT INTO THE ROOM. THIS INCLUDES USING THE WASHROOM. 8. 10. THERE ARE FIVE CATEGORIES OF THE CONTEST AS UNDER:

 - TODDLERS (GRADE 1 & 2)
 - KIDS (GRADE 3 & 4) A.
 - JUNIORS (GRADE 5 & 6) B.
 - JUVENILES (GRADE 7 & 8) c.
 - ADOLESCENTS (GRADE 9 & 10 / O-LEVELS) D.
 - E.
- ONLY REGISTERED STUDENTS CAN PARTICIPATE IN THE CONTEST. 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.

 - IF A PARTICIPANT DOES NOT UNDERSTAND A WORD OR PHRASE ON THE EXAM PAPER, NEITHER EXAMINER NOR INVIGILATOR IS PERMITTED TO ANSWER. FOR INFORMATION ABOUT UPCOMING CONTESTS OR PROVIDING VALUABLE FEEDBACK,
 - 15. ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO INTERNATIONAL CATS

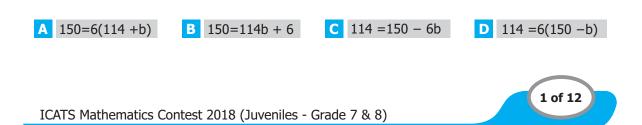
 - CONTESTS AT INFO@CATSCONTESTS.ORG

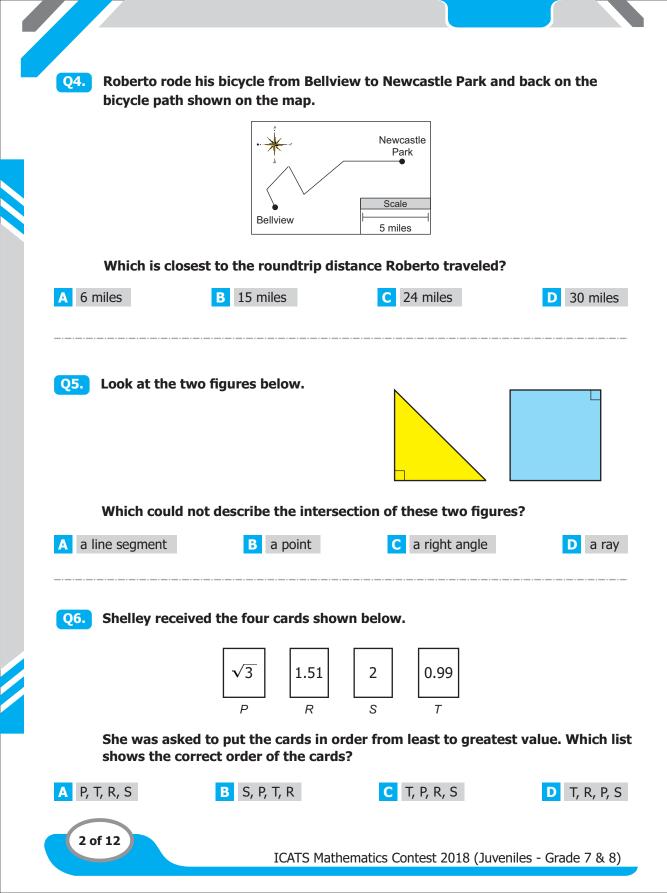


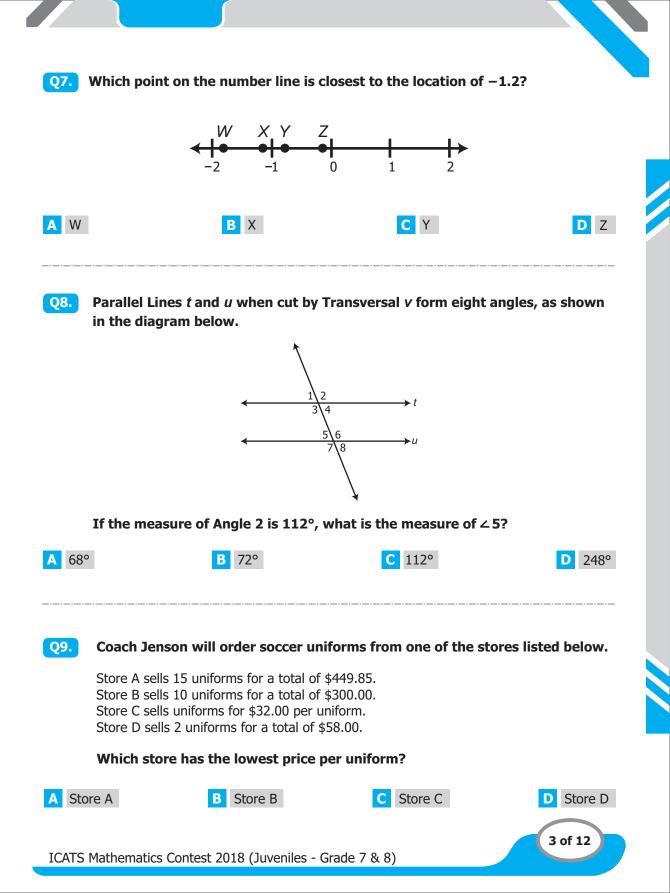
Q2. Mr. Smith asked his students whether they prefer to go to a museum or the zoo for a field trip. He found that 35% of the students prefer to go to a museum, 45% prefer to go to the zoo, and the rest have no preference. What is the ratio of students who have no preference to the students who prefer to go to the museum?

A 1:4	B 1:5	C 4:7	D 4:9

Q3. A movie is being shown on television. The movie is scheduled for a 150-minute time period. There will be some 6-minute commercial breaks (b) throughout the movie. The actual length of the movie is 114 minutes. Which equation could be used to find b, the number of 6-minute commercial breaks?









The table below shows the masses of some of the planets in our solar system.

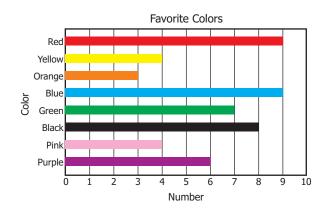
Mass of Planets

Planet	Mass (in kilograms)		
Earth	7.3483 x 10 ²²		
Jupiter	1.8987 x 10 ²⁷		
Uranus	8.6849 x 10 ²⁵		
Neptune	1.0244 x 10 ²⁶		

Which list of planets is in order from the least mass to the greatest mass?



Q11. The graph shows the favorite colors chosen by some middle school students.

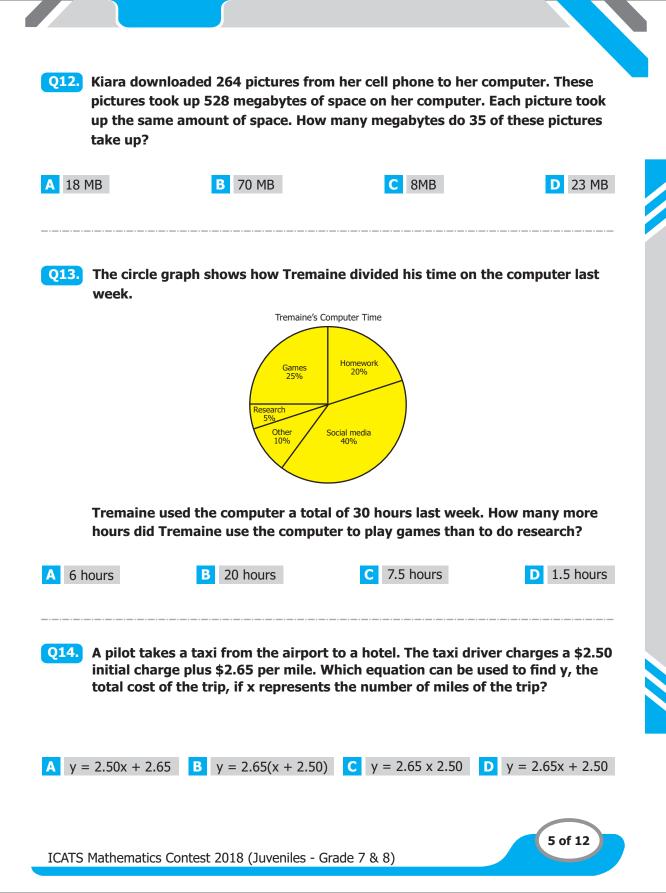


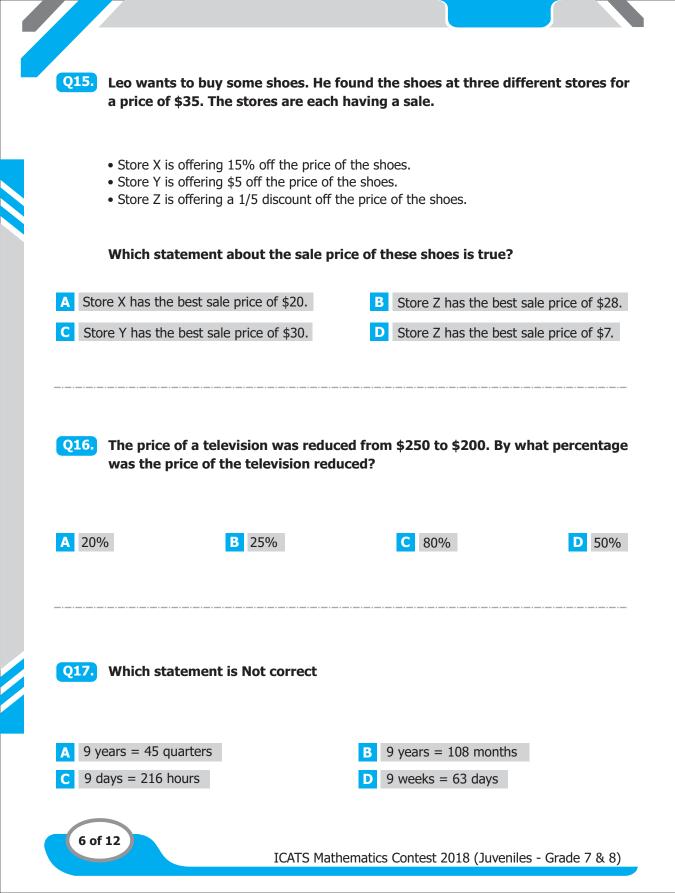
Which statement is supported by the information in the graph?

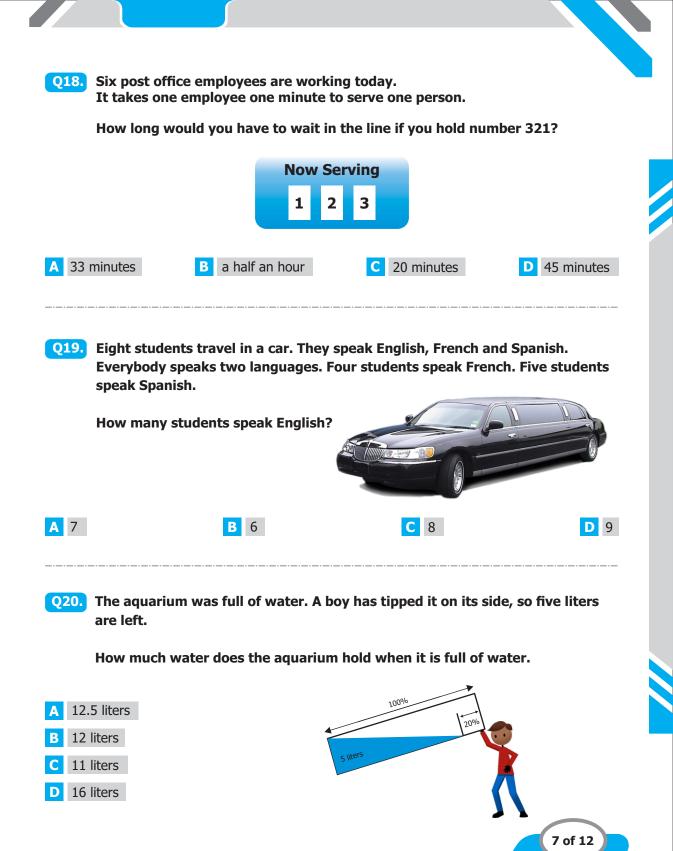
- A Fewer than 30% of the students chose red, yellow, or orange as their favorite color.
- **B** More than $\frac{1}{10}$ of the students chose pink as their favorite color.
- **C** Exactly 18% of the students chose blue as their favorite color.

4 of 12

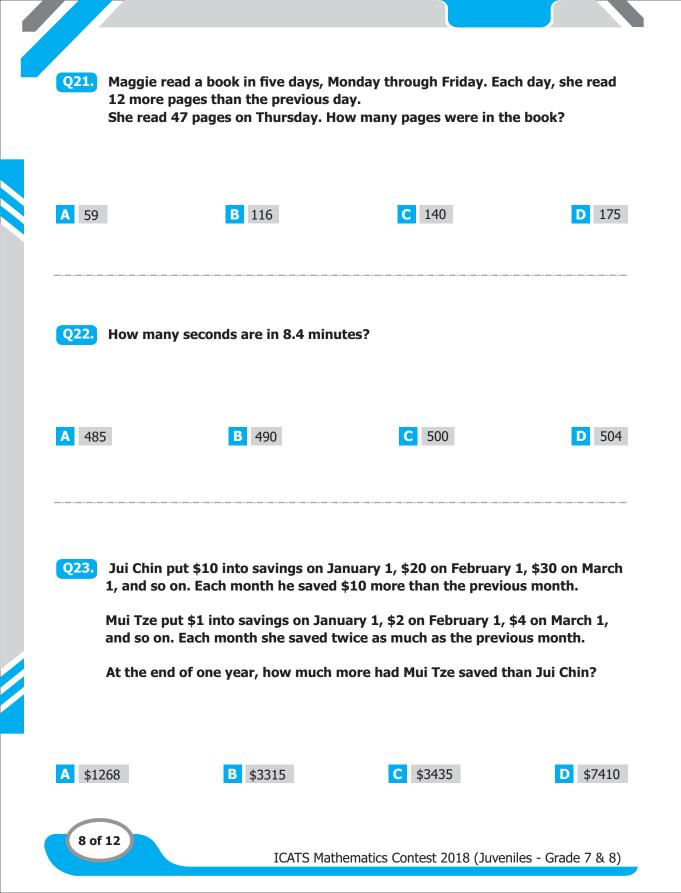
D Exactly $\frac{2}{5}$ of the students chose green, black, or purple as their favorite color.

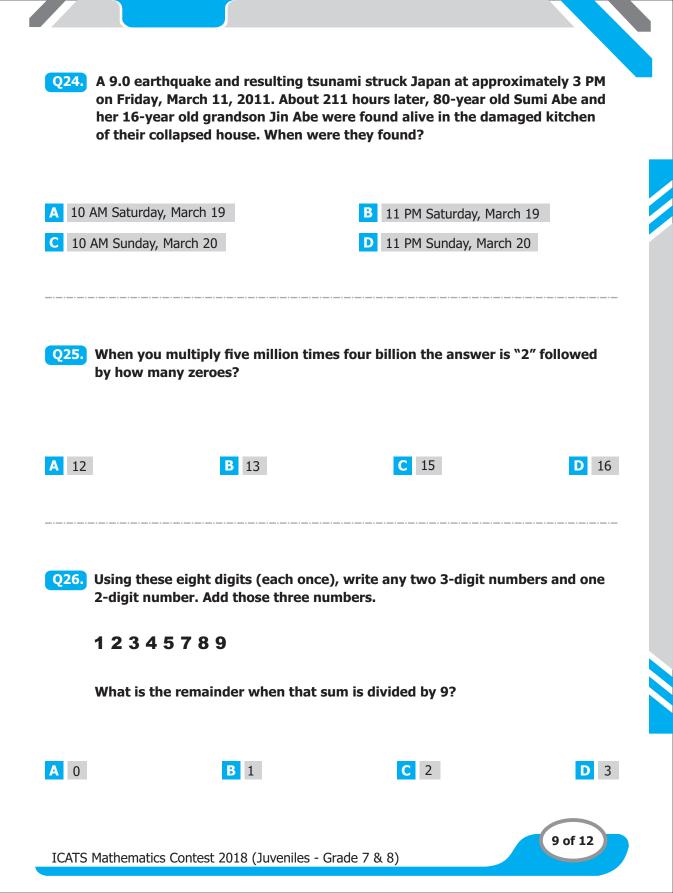


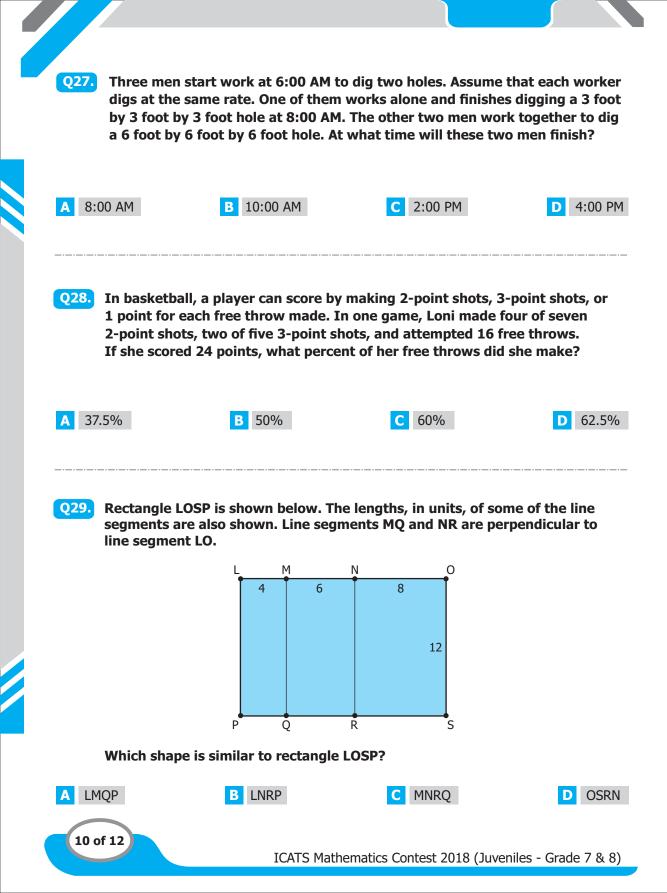




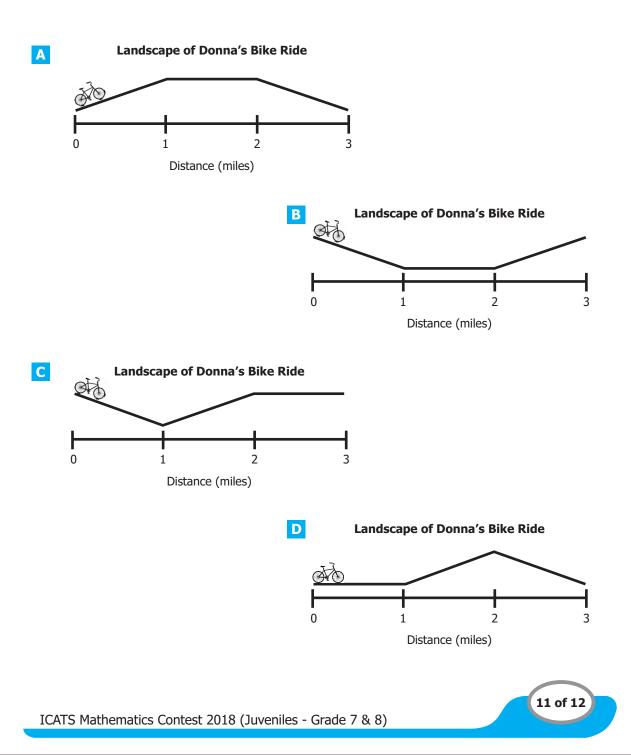
ICATS Mathematics Contest 2018 (Juveniles - Grade 7 & 8)







Q30. Donna rode her bike for three miles. She traveled 18 miles per hour the first mile, 15 miles per hour the second mile, and 21 miles per hour the third mile. Which diagram shows the most likely landscape of Donna's bike ride?



ICATS Math

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