

Mathlete Training Centre
WMI 2022 GRADE 4A

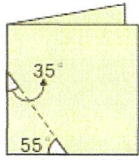
1. $18.2 = ?$

- (A) $\frac{21}{15} \times 13$ (B) $12.6 + 6.6$ (C) $\frac{4}{5} + \frac{6}{5} + \frac{8}{5}$ (D) $20 - 2.2$

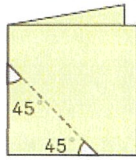
2. A bottle holds 2 litres and 50 milliliters of juice. If John drank 600 milliliters of juice in the morning and 0.5 litre of juice in the afternoon, how many milliliters of juice were left in the bottle?

- (A) 1400 (B) 1100 (C) 1050 (D) 950

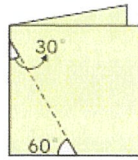
3. Fold each piece of paper below in half and cut them along the dotted line. Which of the following shapes in an equilateral triangle?



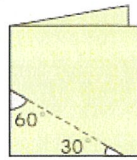
A



B



C



D

- (A) A (B) B (C) C (D) D

4. Given that a 3-digit number $\square 36$ divided by 68 has a quotient of a 2-digit number. How many distinct 1-digit numbers can be written in \square ?

- (A) 2 (B) 3 (C) 4 (D) 5

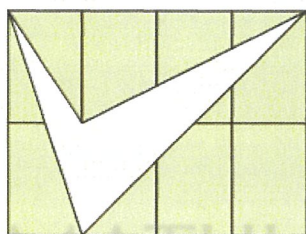
5. Given a hand fan which is opened by 20° . Suppose its right side is rotated 110° and 50° counterclockwise, what kind of angle does the open hand fan have now?
- (A) An obtuse angle (B) A right angle (C) An acute angle (D) A flat angle

6. Below shows the math test result of eight students. The perfect score is 100 points, and the average score is 63 points. Suppose Frank's score is the highest of the eight, and he gets twice of the points that one of the seven other students gets. How many points does Chris get?

Alex	Ben	Chris	Debby	Elsa	Frank	Gill	Helen
76	48		90	35		54	82

- (A) 49 (B) 35 (C) 23 (D) 11

7. As shown below, the eight small rectangles are 18cm long and 12cm wide. Find the area of \checkmark in cm^2 .

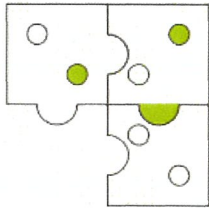


- (A) 496 (B) 480 (C) 432 (D) 324

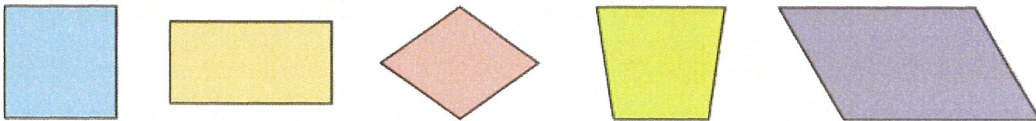
8. Two even numbers are written on the blackboard, one is smaller and the other is bigger. Given that the bigger one is 12 times the smaller one plus 2. If one of the numbers is 446, find the other number.

- (A) 34 (B) 37 (C) 5354 (D) 37 or 5354

9. Which option below makes the right figure a line-symmetrical figure?



10. Given 5 different quadrilaterals in the picture. How many of them have exactly three of the characters written below?



- 4 sides of equal length
- 4 angles are right angles
- 2 pairs of opposite sides are parallel
- 2 pairs of opposite angles are equal
- Cut along the diagonal to make 2 identical isosceles right triangles

(A) 5 (B) 4 (C) 3 (D) 2

11. It is said that those who find clovers (with 4 leaves) among shamrocks (with 3 leaves) are lucky. One day, Anna was picking shamrocks in the forest. If she happened to pick 123 leaves, which option below cannot be the number of clovers that she already picked?

(A) 30 (B) 11 (C) 6 (D) 0

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12. A 70cm long rope is fully used to make a rectangle with integral lengths in cm . Among all the possible rectangles, the largest has the area of $a\text{ cm}^2$, and the smallest has the area of $b\text{ cm}^2$. Find $a - b$.

(A) 270 (B) 272 (C) 284 (D) 306

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13. Given 7 integers. Their mean, median, the only mode, and range are all 7. Among these 7 integers, which option below cannot be the smallest number?
- (A) 2 (B) 4 (C) 5 (D) 6

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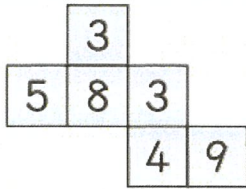
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14. The sum of the digits of a 4-digit number is 24. If the sum of its hundreds digit and units digit happens to be 3 times the sum of its thousands digit and tens digit, how many such 4-digit numbers are there?
- (A) 5 (B) 6 (C) 9 (D) 12

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15. Fold the figure below into a cube. Suppose the sum of the numbers on three of the faces which share the common vertex has a maximum value of M and the minimum value of m , find $M + m$.



- (A) 36 (B) 32 (C) 31 (D) 30