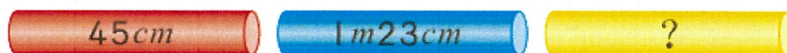


Mathlete Training Centre
WMI 2022 GRADE 3A

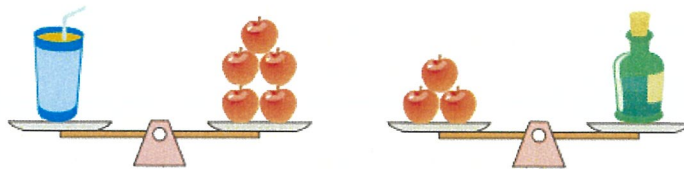
1. () + 374 = 842

- (A) 566 (B) 568 (C) 478 (D) 468

2. The red rope is 45cm long, the blue rope is 1m23cm long, the yellow rope is longer than the red rope yet shorter than the blue rope. Which option below might be the length of the yellow rope?



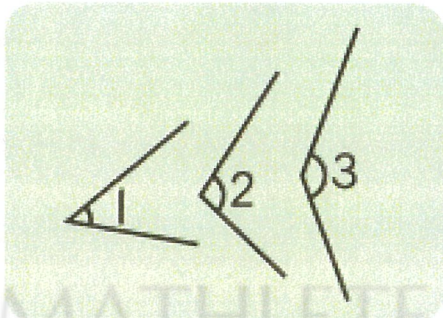
- (A) 75m (B) 200cm (C) 99mm (D) 121cm



3.

4. 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. After she had picked the first clover, she found that she hapened to pick 100 leaves. How many shamrocks did she already pick?

(A) 34 (B) 33 (C) 32 (D) 31







5.

- (A) $\angle 1 > \angle 2 > \angle 3$ (B) $\angle 1 > \angle 3 > \angle 2$ (C) $\angle 3 > \angle 2 > \angle 1$ (D) $\angle 3 > \angle 1 > \angle 2$

6. Each sweater is sold 105 dollars originally. During the annual sale, each sweater is sold 61 dollars. If Tony buys 7 sweaters, how much money can he save?

- (A) 326 (B) 238 (C) 276 (D) 308

7. As shown on the right, how many US dollars are there in total?

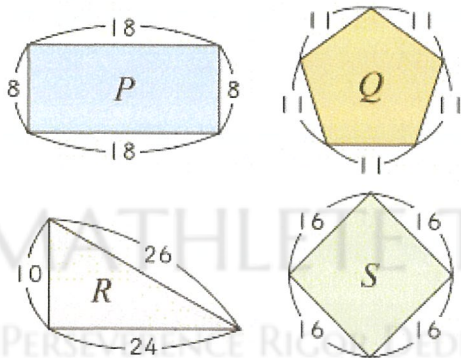
\$100	\$50	\$20	\$10	\$5
				

- (A) 955 (B) 995 (C) 1005 (D) 1015

8. Two even numbers are written on the blackboard, one is smaller and the other is bigger. Given that the bigger one is 6 times the smaller one plus 2. If one of the numbers is 68, find the other number.

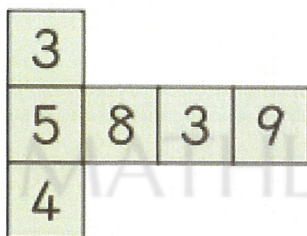
- (A) 11 (B) 12 (C) 410 (D) 11 or 410

9. Look at the picture and find the shapes with the longest and the shortest perimeters, respectively.



- (A) R, P (B) S, P (C) R, Q (D) S, R

10. Fold the figure below into a cube. Find the minimum sum of the numbers on the three of the faces which share the common vertex.



- (A) 16 (B) 14 (C) 12 (D) 11

11. Pick three numbers out of the five numbers below to form a 3-digit number, and the digits cannot repeat. Find the difference between the largest and the smallest 3-digit numbers.



- (A) 640 (B) 618 (C) 622 (D) 616

12. 456 people attended a game show which had three rounds. In the round of “Red light, green light”, 138 people were eliminated. In the round of “Musical chairs”, some people were eliminated. People who were eliminated in the round of “Hopscotch” were half more than the people who had been eliminated in the round of “Red light, green light”. In the end, 11 people passed the game. How many people were eliminated in the round of “Musical chairs”?
- (A) 100 (B) 101 (C) 110 (D) 123

13. Set the largest value and the smallest value of $\square + \bigcirc$ to be M and m , respectively. Find $M + m$.

$$\begin{array}{r} 4 \square \\ \times \quad 6 \\ \hline 2 \bigcirc 2 \end{array}$$

- (A) 18 (B) 20 (C) 22 (D) 24

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

15. As shown below, draw \circ on the products of 3, draw \square on the products of 5, draw \triangle on the product of 8. If the same five symbols can be linked up as a straight line, how many straight lines can be drawn? (Different symbols can be drawn on the same number)

15	10	95	25	90
27	9	48	57	75
72	32	24	56	40
12	36	88	21	65
96	45	51	74	60

3	5	8
\circ	\square	\triangle

- (A) 5 (B) 6 (C) 7 (D) 8