Unified International Mathematics Olympiad

UIMO SAMPLE QUESTIONS

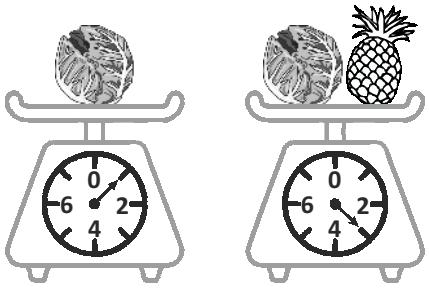
CLASS - 02

MATHEMATICS

01. **A yellow ribbon is 25 cm longer than a red ribbon. If the yellow ribbon is 77 cm long, find the total length of the two ribbons.**

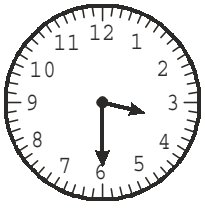
(A) 129 cm (B) 120 cm (C) 130 cm (D) 121 cm

02. **From the given image the mass of the pineapple is**



(A) 1kg (B) 3kg (C) 2kg (D) 4kg

03. **David went to the shopping mall at 3.30 p.m. He spent an hour there. What time did he leave the shopping mall ?**



(A) 4:30 am (B) 4:00 am (C) 4:00 pm (D) 4:30 pm

04. **2 ladybugs have 12 legs. How many pairs of legs do 5 ladybugs have ?**

(A) 30 (B) 3 (C) 15 (D) 18

05. **Mr. Krishna has 5 ten-rupee notes. He wants to buy some items shown in the box.**

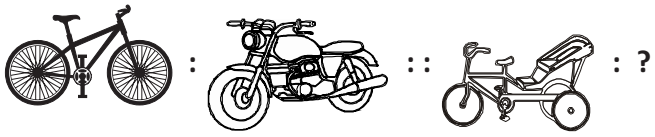
P	Q	R	S
			
₹ 15	₹ 9	₹ 34	₹ 17

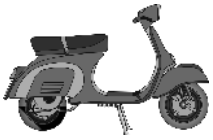
Which two items should he buy if he wants to spend as much money as possible ?

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

REASONING

01. Choose the correct option to complete the second pair in the same way as the first pair.



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

02. Which letter comes next ?

(A) Y (B) W (C) V (D) A

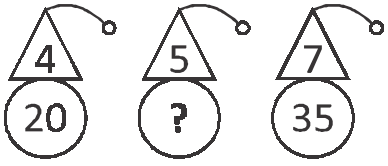
03. Which number replaces the question mark ?

(A) 16 (B) 18 (C) 4 (D) 8

04. Which option is exactly the same as the one given ?

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

05. Find the missing number in the middle figure.



(A) 15 (B) 30 (C) 35 (D) 25

KEY & SOLUTION

MATHEMATICS

01. **(A)** Length of yellow ribbon = 77 cm

Red ribbon = 77 cm – 25 cm = 52 cm

Total length of two ribbons = 77 cm + 52 cm = 129 cm

02. **(C)** Mass of the cabbage = 1 kg

Mass of the pineapple and the cabbage = 3 kg

Mass of the pineapple = 3 – 1 = 2 kg

03. **(D)** David went to shopping at = 3:30 pm

Number of hours he spent at shopping mall = 1 hour

3:30 pm + 1 hr = 4:30 pm

He leave the shopping mall at 4:30 pm

04. **(C)** Number of legs each lady bug has = 12 ÷ 2 = 6 = 3 pairs

Number of pairs of legs to 5 lady bugs have = 5 × 3 = 15

05. **(A)** Amount with Mr. Krishna = 5 ten rupee notes = ₹ 50

The 2 items he can buy.

Cost of given items is P = ₹ 15

Q = ₹ 9

R = ₹ 34

S = ₹ 17

He can buy P, Q = ₹ 15 + ₹ 9 = ₹ 24

Q, R = ₹ 34 + ₹ 9 = ₹ 43

P, R = ₹ 15 + ₹ 34 = ₹ 49

P, S = ₹ 15 + ₹ 17 = ₹ 32

Q, S = ₹ 9 + ₹ 17 = ₹ 26

R, S = ₹ 34 + ₹ 17 = ₹ 51

He cannot buy R, S which costs ₹ 51. i.e., more than ₹ 50

So, the maximum amount he can spend and buy the things are R, P (Bag and a ball), which costs ₹ 49

REASONING

01. **(B)** Cycle and scooter have 2 wheels, whereas rickshaw and auto rickshaw have 3 wheels.

02. **(B)** Two letters after 'T'.

03. **(C)** $5 \times 4 = 20$; $4 \times 3 = 12$; $2 \times 2 = 4$

04. **(B)** 

05. **(D)** $\frac{20}{5} = 4$; $\frac{25}{5} = 5$; $\frac{35}{7} = 5$