SOF INTERNATIONAL MATHEMATICS OLYMPIAD

Total Questions : 35 Time : 1 hr.

PATTERN & MARKING SCHEME				
Section	**(1) Logical Reasoning**	**(2) Mathematical Reasoning**	**(3) Everyday Mathematics**	**(4) Achievers Section**
No. of Questions	**10**	**10**	**10**	**5**
Marks per Ques.	**1**	**1**	**1**	**2**

Scan the QR code for more details

SYLLABUS

Section – 1 : Patterns, Alphabet Test, Coding-Decoding, Ranking Test, Mirror Images, Geometrical Shapes and Solids, Embedded Figures, Direction Sense Test, Possible Combinations, Analogy and Classification, Clock and Calendar.

Section – 2 : Numerals, Number Names, Number Sense (more than 4-digit numbers), Computation Operations, Fractions, Length, Weight, Capacity, Time, Money, Geometry, Perimeter of Various Shapes, Symmetry, Conversions, Data Handling

Section – 3 : Syllabus as per Section–2.

Section – 4 : Higher Order Thinking Questions - Syllabus as per Section–2.

6348 , 1479 and 1599

1479 is smallest

Ascending order

1479 < 1599 < 6348

Descending order (High to low)

$$\begin{array}{r} 6348 \\ 1479 \\ +\ 1599 \\ \hline 9426 \end{array}$$

Line

Ray

~~Lig~~

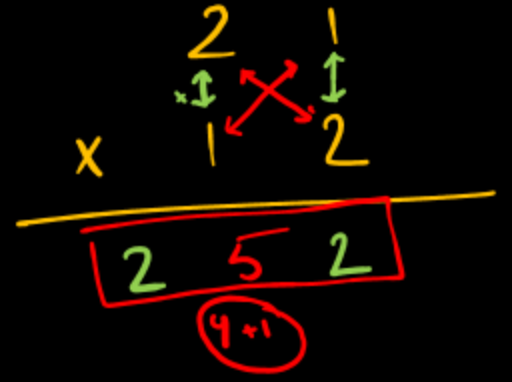
Line segment

Point

$$\begin{array}{r} 21 \\ \times\ 12 \\ \hline 252 \\ \hline \end{array}$$

School exam

$$\begin{array}{r} 21 \\ \times\ 12 \\ \hline 42 \\ +\ 210 \\ \hline 252 \\ \hline \end{array}$$



$$\begin{array}{r} 25 \\ \times\ 12 \\ \hline 200 \\ \hline 300 \\ \hline \end{array}$$

10

$$\begin{array}{r} 13 \\ \times\ 13 \\ \hline 169 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \\ \times\ 13 \\ \hline 286 \\ \hline \end{array}$$

$$\begin{array}{r} 31 \\ \times\ 12 \\ \hline 352 \\ \hline \end{array}$$

$$\boxed{372}$$

$$\begin{array}{r} 32 \\ \times\ 12 \\ \hline 384 \\ \hline \end{array}$$

✓

$$\begin{array}{r} 26 \\ \times\ 11 \\ \hline 286 \\ \hline \end{array}$$

$$\begin{array}{r} 49 \\ \times\ 10 \\ \hline 490 \\ \hline \end{array}$$

$$\begin{array}{r} 39 \\ \times\ 24 \\ \hline 936 \\ \hline \end{array}$$

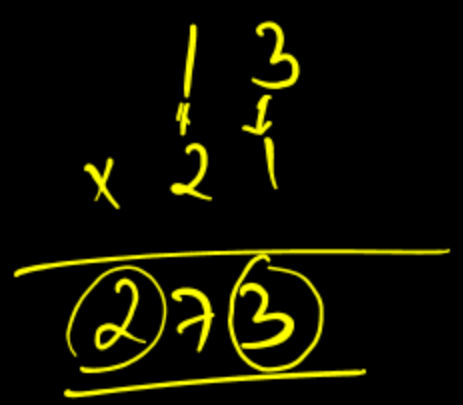
$$\begin{array}{r} 12 \\ 18 \\ \hline \end{array}$$

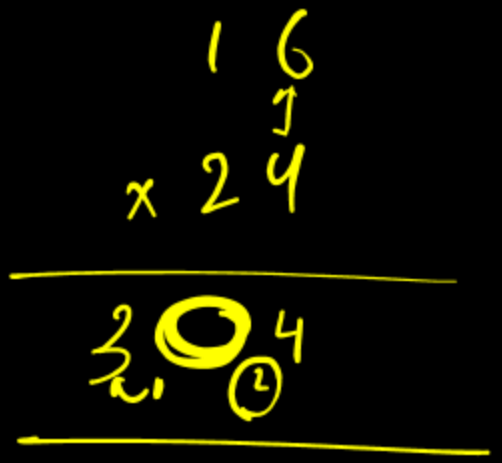
$$\begin{array}{r} 42 \\ \times\ 24 \\ \hline 1008 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \\ 4 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 13 \\ \times\ 14 \\ \hline 182 \\ \hline \end{array} \checkmark$$

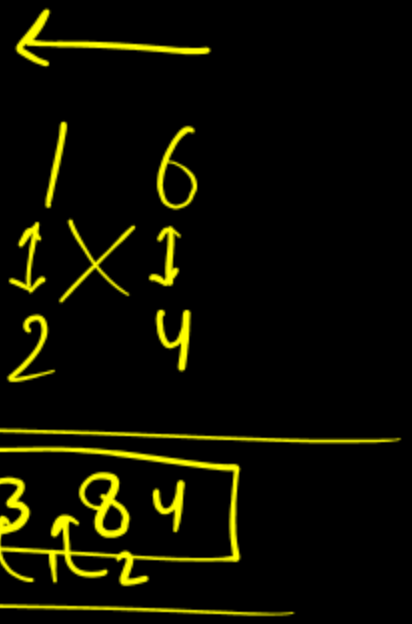
$$\begin{array}{r} 89 \\ \times\ 42 \\ \hline \\ \hline \end{array}$$





3164

12
+4
16



24

12
4
16

$$\begin{array}{r} 19 \\ \times\ 12 \\ \hline 308 \end{array}$$

$$\begin{array}{r} 1\ \ 9 \\ \times\ 1\ \ 2 \\ \hline 228 \\ {\scriptstyle 2\ 1\ 1} \end{array}$$

$$\begin{array}{r} 32 \\ \times 13 \\ \hline 416 \end{array}$$

$$\begin{array}{r} 36 \\ \times\ 12 \\ \hline 432 \end{array}$$

$$\begin{array}{r} 24 \\ \times 22 \\ \hline 528 \end{array}$$

42
× 13
546

35
× 35
1225

35
× 35
1225

15
05
× 05
225

45
× 45
2025

95
× 95
9025

16
× 14
224

85
× 85
7225

65
× 65
4225

$$\begin{array}{r} 56 \\ \times\ 54 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 36 \\ \times\ 12 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ \times\ 85 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times\ 34 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 19 \\ \times\ 21 \\ \hline \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times\ 65 \\ \hline \\ \hline \end{array}$$

3×2

$$\begin{array}{r} 25 \\ 25 \\ \hline 625 \end{array}$$

5×4

$$\begin{array}{r} 45 \\ 45 \\ \hline 2025 \end{array}$$

6×5

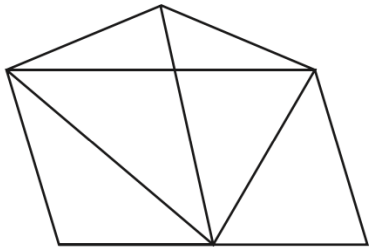
$$\begin{array}{r} 55 \\ 55 \\ \hline 3025 \end{array}$$

4×3

$$\begin{array}{r} 35 \\ 35 \\ \hline 1225 \end{array}$$

1. How many triangles are there in the given figure?

(A) 11
(B) 12
(C) 10
(D) 14



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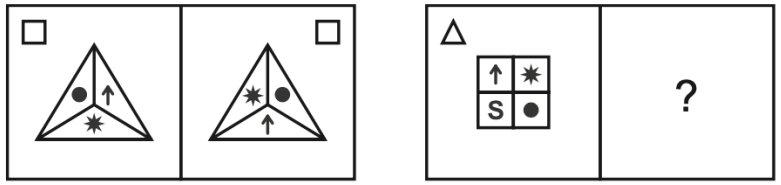
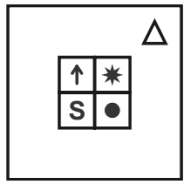
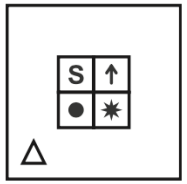
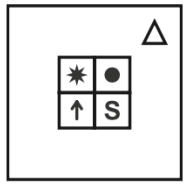
2. There is a certain relationship between figures (i) and (ii). Establish a similar relationship between figures (iii) and (iv) by selecting a suitable figure from the options which will replace the (?) in Fig. (iv).

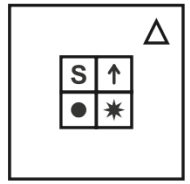


(i) (ii) (iii) (iv)

(A) 

(B) 

(C) 

(D) 

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3. Some letters are given which are numbered 1, 2, 3, 4, 5 and 6 followed by four options containing combinations of these numbers. Find the combination of numbers so that the letters are arranged accordingly to form a meaningful English word.

N	O	L	E	D	G
1	2	3	4	5	6

(A) 6, 2, 3, 5, 4, 1
(B) 5, 4, 1, 6, 2, 3
(C) 3, 4, 1, 6, 5, 2
(D) 1, 6, 5, 4, 3, 2

EVERYDAY MATHEMATICS

7. The flight from Chennai to Dubai took off at 4:45 hours. It landed in Dubai at 9:15 hours. How long was the flight?

(A) 4 hrs 50 mins (B) 3 hrs 55 mins (C) 4 hrs 30 mins (D) 4 hrs 10 mins

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8. The total number of children in a class is 40. 7 children were absent on Monday. What fraction of total children were present on Monday?

(A) $\frac{7}{40}$ (B) $\frac{33}{40}$ (C) $\frac{40}{7}$ (D) $\frac{40}{33}$