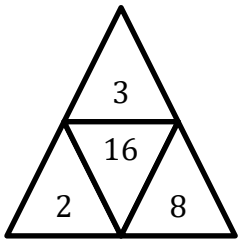
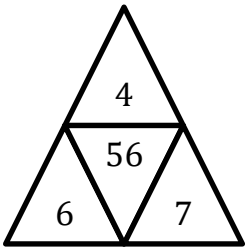
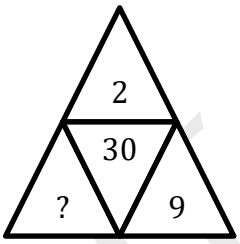
MISSING NUMBER IN FIGURES

1) Find the missing number, in accordance with the pattern in the first two triangles given below?







a) 5 b) 3 c) 6 d) 8

2) Find the missing number, in accordance with the pattern?

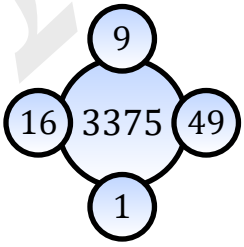
a) 7 b) 8 c) 6 d) 5

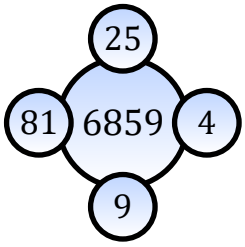
3) Which number replaces the question mark?

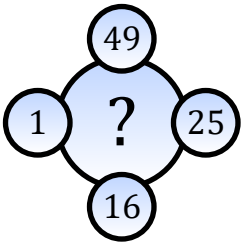
25	27	22
47	?	43
39	512	31

a) 216 b) 25 c) 125 d) 64

4) In accordance with the pattern given in first two figures, find the best suitable number to replace the question mark?

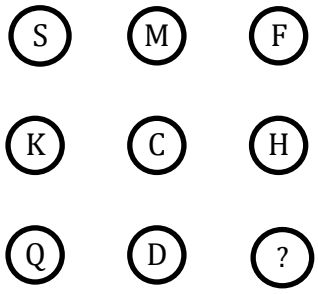






a) 2744 b) 4913 c) 4096 d) 5832

5) Find the missing letter?



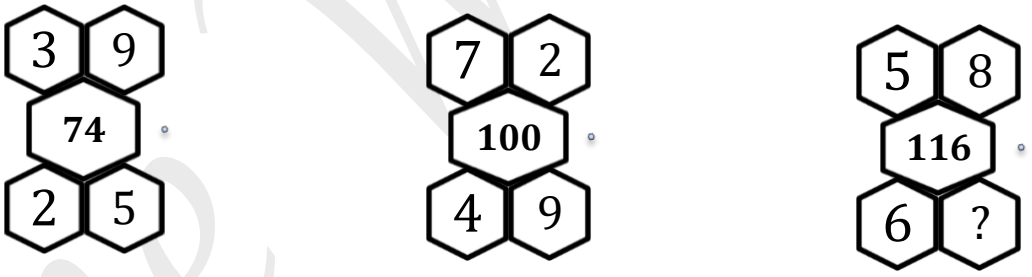
a) M b) R c) N d) L

6) Find the number that can replace the question mark?

36	81	64	432
25	49	9	105
121	36	4	?

a) 126 b) 220 c) 132 d) 229

7) Which number replaces the question mark?



a) 5 b) 7 c) 3 d) 6

8) Find the number that can replace the question mark?

956	684
150	?
564	362

a) 165 b) 156 c) 147 d) 158

(Look at next page for answers)

Answer Key & Solution:

1) a (5)
   First Figure : (2 x 3 x 8) ÷ (3) = 16
   Second Figure : (4 x 6 x 7) ÷ (3) = 56
   Third Figure : (9 x **5** x 2) ÷ (3) = 30

2) b (8)
   First Figure : $(4^2 + 9^2) – (4 + 9) = 84$
   Second Figure : $(3^2 + \mathbf{8}^2) – (3 + \mathbf{8}) = 62$
   Third Figure : $(7^2 + 2^2) – (7 + 2) = 44$

3) d (64)
   First Row : $(25 - 22)^3 = 3^3 = 27$
   Second Row : $(47 - 43)^3 = 4^3 =$ **64**
   Third Row : $(39 - 31)^3 = 8^3 = 512$

4) b (4913)
   First Figure : $(\sqrt{9} + \sqrt{16} + \sqrt{1} + \sqrt{49})^3 = 15^3 = 3375$
   Second Figure : $(\sqrt{25} + \sqrt{81} + \sqrt{9} + \sqrt{4})^3 = 19^3 = 6859$
   Third Figure : $(\sqrt{49} + \sqrt{1} + \sqrt{16} + \sqrt{25})^3 = 17^3 =$ **4913**

5) a (M)
   S – M = 6 = F
   K – C = 8 = H
   Q – D = 13 = M

6) c (132)
   First Figure : $(\sqrt{36} \times \sqrt{81} \times \sqrt{64}) = 6 \times 9 \times 8 = 432$
   Second Figure : $(\sqrt{25} \times \sqrt{49} \times \sqrt{9}) = 5 \times 7 \times 3 = 105$
   Third Figure : $(\sqrt{121} \times \sqrt{36} \times \sqrt{4}) = 11 \times 6 \times 2 =$ **132**

7) c (3)
   First Figure : (3 x 9) + (2 x 5) = 37 x 2 = 74
   Second Figure : (7 x 2) + (4 x 9) = 50 x 2 = 100
   Third Figure : (5 x 8) + (6 x **3**) = 58 x 2 = 116

8) b (156)
   First Column : 956 (9 x 5 x 6) – 564 (5 x 6 x 4) = 270 – 120 = 150
   First Column : 684 (6 x 8 x 4) – 362 (3 x 6 x 2) = 192 – 36 = **156**

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