Questions : 1

What number should replace the question mark?

Ans: 1

Multiply the bottom two numbers then take the square root, ie 1 x 4 = 4 and √4 = 2.

Questions : 2

What number should logically replace the question mark?
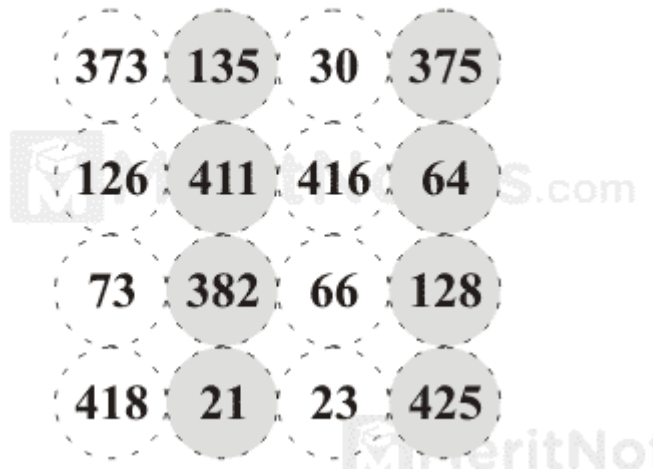
535 : 7580 : 852

483 : 9642 : 716

723 : ? : 633

Ans: 4254

The centre number in each row is the product of the digits on the left, followed by the product of the digits on the right, i.e. 7 x 2 x 3 = 42 and 6 x 3 x 3 = 54.

Which 5 numerals will add up to 1,000?

373	135	30	375
126	411	416	64
73	382	66	128
418	21	23	425

Ans: 1,000

416 + 373 + 126 + 64 + 21 = 1,000

Questions : 4

What number should replace the question mark?
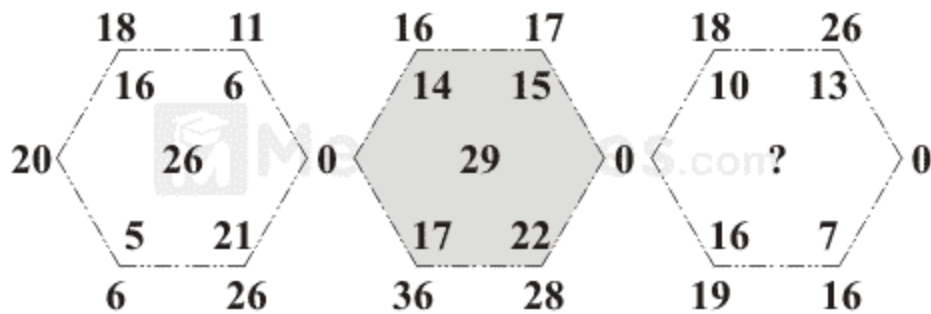
Hexagon 1:
18   11
16   6
20   26   0
5   21
6   26

Hexagon 2 (shaded):
16   17
14   15
0   29   0
17   22
36   28

Hexagon 3:
18   26
10   13
0   ?   0
16   7
19   16

Ans: 45

```
18        10
26        13
29        17
16         7
19        16
―――      ―――
108   –   63
```

What number should replace the question mark?

48	6	13	21
60	10	15	21
33	11	16	19
42	14	17	20
72	12	14	?

Ans: 20

48/6 + 13 = 21
60/10 + 15 = 21
33/11 + 16 = 19
42/14 + 17 = 20
72/12 + 14 = 20

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