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D. 1452

E. None of these

(7). **88 115 144 175 208 ?**

A. 271

B. 292

C. 234

D. 243

E. None of these

(8). **448 294 180 100 48 18 ?**

A. 6

B. 4

C. 8

D. 12

E. None of these

(9). **7 43 165 451 987 ?**

A. 1867

B. 1947

C. 1744

D. 1648

E. None of these

(10). **2 14 42 92 170 ?**

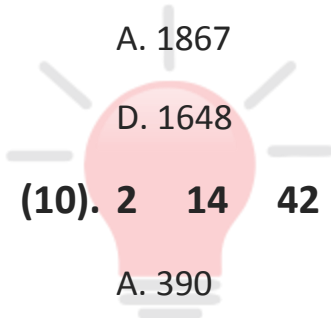
A. 390

B. 285

C. 288

D. 385

E. None of these



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Correct answers:

1	2	3	4	5	6	7	8	9	10
B	C	A	D	C	D	D	B	A	E

Explanations:

1.

Series Pattern	Given Series
7	7
$7 \times 3 - 15$	6
$6 \times 3 - 15$	3
$3 \times 3 - 15$	-6
$-6 \times 3 - 15$	-33 ✓
$-33 \times 3 - 15$	-114

Hence, option B is correct.

2.

Triangular Method:

Series I : 6 42 164 450 1002 ?

Sereis II : 36 122 286 552 ?

Series III: 86 164 266 ?

Series IV: 78 102 ?

Series V : 24 ?

Clearly, the pattern in series V is +24. So, the missing term in series IV = $102 + 24 = 126$ ∴ missing term in series III = $266 + 126 = 392$; ∴ missing term in series II = $552 + 392 = 944$; Therefore, missing term in series I = $1002 + 944 = 1946$.

Series I : 6 42 164 450 1002 **1946**

Sereis II : 36 122 286 552 **944**

Series III: 86 164 266 **392**

Series IV: 78 102 **126**
 Series V : 24 24

Hence, option C is correct.

3.

Series Pattern	Given Series
7	7
$7 \times 0.5 + 0.5$	4
$4 \times 1 + 1$	5
$5 \times 1.5 + 1.5$	9
$9 \times 2 + 2$	20 ✓
$20 \times 2.5 + 2.5$	52.5

Hence, option A is correct.

4.

Series Pattern	Given Series
8	8
$8 \times 1.5 + 2$	14
$14 \times 1.5 + 2$	23
$23 \times 1.5 + 2$	36.5
$36.5 \times 1.5 + 2$	56.75 ✓
$56.75 \times 1.5 + 2$	87.125

Hence, option D is correct.

5.

Series Pattern	Given Series
3	3
$3 \times 2 + 1$	7
$7 \times 2 + 1$	15
$15 \times 2 + 1$	31
$31 \times 2 + 1$	63 ✓
$63 \times 2 + 1$	127

Hence, option C is correct.

6.

Series Pattern	Series
$1^3 + 1^2$	2
$3^3 + 3^2$	36
$5^3 + 5^2$	150
$7^3 + 7^2$	392
$9^3 + 9^2$	810
$11^3 + 11^2$	1452 ✓
$13^3 + 13^2$	2366

Hence, option D is correct.

7.

Series Pattern	Given Series
$22 \times (2 + 2)$	88
$23 \times (2 + 3)$	115
$24 \times (2 + 4)$	144
$25 \times (2 + 5)$	175
$26 \times (2 + 6)$	208
$27 \times (2 + 7)$	243 ✓

Hence, option D is correct.

8.

Series Pattern	Series
$8^3 - 8^2$	448
$7^3 - 7^2$	294
$6^3 - 6^2$	180
$5^3 - 5^2$	100
$4^3 - 4^2$	48
$3^3 - 3^2$	18
$2^3 - 2^2$	4 ✓

Hence, option B is correct.

9.

Triangular Method:

Series I : 7 43 165 451 987 ?

Series II : 36 122 286 536 ?

Series III: 86 164 250 ?

Series IV: 78 86 ?

Series V : 8 ?

Clearly, the pattern in series V is +8.

So, the missing term in series IV = $86 + 8 = 94$

\therefore missing term in series III = $250 + 94 = 344$;

\therefore missing term in series II = $536 + 344 = 880$;

Therefore, missing term in series I = $987 + 880 = 1867$.

Series I : 7 43 165 451 987 **1867**

Series II : 36 122 286 536 **880**

Series III: 86 164 250 **344**

Series IV: 78 86 **94**

Series V : 8 8

Hence, option A is correct.

10.

Series Pattern Given Series

$$2^2 \times 1 - 2 \quad 2$$

$$3^2 \times 2 - 4 \quad 14$$

$$4^2 \times 3 - 6 \quad 42$$

$$5^2 \times 4 - 8 \quad 92$$

$6^2 \times 5 - 10$	170	
$7^2 \times 6 - 12$	282	✓

Hence, option E is correct.



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