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**No. Series Quiz 18**

Directions: Find the next term in the given series.

(1) 2 2 5 15.5 ? 267.125 1475.1875

- A. 56.25      B. 48.25      C. 60.75      D. 58.25      E. 59.25

(2) 40 44 97 307 1253 ?

- A. 6201      B. 6301      C. 6401      D. 6403      E. 6501

(3) 200 344 444 508 ? 560

- A. 524      B. 534      C. 544      D. 528      E. 554

(4) 129 163 202 246 ? 349

- A. 285      B. 295      C. 265      D. 275      E. 305

(5) 40320 5760 960 192 48 ?

- A. 18      B. 12      C. 24      D. 16      E. 8

(6) 336, 438, 370, ?, 132, 50, 6

- A. 290      B. 250      C. 280      D. 260      E. None of these

(7) 76, 41, 64, 51, ?, 57, 52

- A. 53      B. 54      C. 56      D. 65      E. None of these

(8) 90, 30, 30, 30, 60, ?

- A. 60      B. 90      C. 100      D. 30      E. None of these

(9) 6, 12, 21, 32, 47, ?

A. 55

B. 65

C. 71

D. 85

E. None of these

(10) 7, 10, 32, 123, ?, 2775

A. 492

B. 512

C. 540

D. 565

E. None of these



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**Correct answers:**

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

**Explanation:****(1)**

The series is  $\times 0.5 + 1, \times 1.5 + 2, \times 2.5 + 3, \times 3.5 + 4, \times 4.5 + 5, \times 5.5 + 6, \dots$

Series Pattern	Series
$2 \times 0.5 + 1$	2
$2 \times 1.5 + 2$	5
$5 \times 2.5 + 3$	15.5
$15.5 \times 3.5 + 4$	<b>58.25</b> ✓
$58.25 \times 4.5 + 5$	267.125
$267.125 \times 5.5 + 6$	1475.1875

Hence, option D is correct.

**(2)**

The series is  $\times 1 + 2^2, \times 2 + 3^2, \times 3 + 4^2, \times 4 + 5^2, \times 5 + 6^2, \times 6 + 7^2$

Series Pattern	Series
$40 \times 1 + 2^2$	44
$44 \times 2 + 3^2$	97
$97 \times 3 + 4^2$	307
$307 \times 4 + 5^2$	1253
$1253 \times 5 + 6^2$	<b>6301</b> ✓

Hence, option B is correct.

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(3)

The series is  $+ (12)^2, + (10)^2, + (8)^2, + (6)^2, \dots$

Series Pattern	Series
$200 + (12)^2$	344
$344 + (10)^2$	444
$444 + (8)^2$	508
$508 + (6)^2$	544 ✓
$544 + (4)^2$	560

Hence, option C is correct.

(4)

The series is  $+ (5 \times 7) - 1, + (5 \times 8) - 1, + (5 \times 9) - 1, + (5 \times 10) - 1, + (5 \times 11) - 1, \dots$

Series Pattern	Series
$129 + (5 \times 7) - 1$	163
$169 + (5 \times 8) - 1$	202
$202 + (5 \times 9) - 1$	246
$246 + (5 \times 10) - 1$	<b>295</b> ✓
$295 + (5 \times 11) - 1$	349

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Or, series is  $+34, +39, +44, +49, 54$

Hence, option B is correct.

(5)

Series Pattern	Series
40320	40320
$40320 \div 7$	5760
$5760 \div 6$	960
$960 \div 5$	192
$192 \div 4$	48
$48 \div 3$	<b>16</b> ✓

Hence, option D is correct.

(6)

Series Pattern    Given Series

$7^3 \times 1 - 7 = 336$	336	
$6^3 \times 2 + 6 = 438$	438	
$5^3 \times 3 - 5 = 370$	370	
$4^3 \times 4 + 4 = 260$	<b>260</b>	✓
$3^3 \times 5 - 3 = 132$	132	
$2^3 \times 6 + 2 = 50$	50	
$1^3 \times 7 - 1 = 6$	6	

Hence, option (D) is correct.

(7)

Series Pattern    Given Series

76	76	
$76 - 6^2 + 1 = 41$	41	
$41 + 5^2 - 2 = 64$	64	
$64 - 4^2 + 3 = 51$	51	
$51 + 3^2 - 4 = 56$	<b>56</b>	✓
$56 - 2^2 + 5 = 57$	57	
$57 + 1^2 - 6 = 52$	52	

Hence, option (C) is correct.

(8)

Series Pattern    Given Series

90	90	
$(90 \div 3) \times 1$	30	
$(30 \div 2) \times 2$	30	
$(30 \div 3) \times 3$	30	
$(30 \div 2) \times 4$	60	
$(60 \div 3) \times 5$	<b>100</b>	✓

Hence, option (C) is correct.

(9)

**Series Pattern Given Series**

$2 + 2^2$	6	
$3 + 3^2$	12	
$5 + 4^2$	21	
$7 + 5^2$	32	
$11 + 6^2$	47	
$13 + 7^2$	62	✓

Hence, option (E) is correct.

(10)

**Series Pattern Given Series**

7	7	
$(7 + 3) \times 1$	10	
$(10 + 6) \times 2$	32	
$(32 + 9) \times 3$	123	
$(123 + 12) \times 4$	<b>540</b>	✓
$(540 + 15) \times 5$	2775	

Hence, option (C) is correct.

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