



SSC CGL 2023 Number Series


Q. 1

Which of the following numbers will replace the question mark (?) in the given series?

8, 15, 26, ? , 56, 75

a) 35 

b) 43 

c) 41 

d) 39 


Explanation:


$$\begin{array}{ccccccccc} 8 & , & 15 & , & 26 & , & ? & , & 56 & , & 75 \\ \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & \underbrace{\hspace{1.5cm}} & & & & & & \\ +7 & +11 & +13 & +17 & +19 & & & & & & \end{array}$$
$$\begin{aligned} ? &= 26 + 13 \\ &= 39 \end{aligned}$$

Q. 2

Which number should replace the question mark (?) in the following number series?

39, 42, 48, 57, 69, ?, 102

a) 84 

b) 81 

c) 87 

d) 79 


Explanation:

$$\begin{array}{ccccccc} 39 & 42 & 48 & 57 & 69 & ? & 102 \\ \text{+3} & \text{+6} & \text{+9} & \text{+12} & \text{+15} & \text{+18} & \\ ? = 69 + 15 & & & & & & \\ = 84 & & & & & & \end{array}$$

Q. 3

Which of the following numbers will replace the question mark (?) in the given series?

33, 80, 108, ?, 183, 230, 258

a) 155 

b) 143 

c) 138 

d) 160 





Explanation:

$$\begin{array}{ccccccc} 33 & 80 & 108 & ? & 183 & 230 & 258 \\ \text{+47} & \text{+28} & \text{+47} & \text{+28} & \text{+47} & \text{+28} & \\ ? = 108 + 47 & & & & & & \\ = 155 & & & & & & \end{array}$$

Q. 4

Which of the following numbers will replace the question mark (?) in the given series?

82, 79, 71, ?, 60, 57, 49

- a) 63 
- b) 61 
- c) 62 
- d) 68 

Explanation:





$$\begin{array}{ccccccc}
 82 & , & 79 & , & 71 & , & ? & , & 60 & , & 57 & , & 49 \\
 \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} \\
 -3 & & -8 & & -3 & & -8 & & -3 & & -8 & &
 \end{array}$$

$$\begin{aligned}
 ? &= 71 - 3 \\
 &= 68
 \end{aligned}$$

Q. 5

Which of the following numbers will replace the question mark (?) in the given series?

325, 271, 226, ?, 163, 145, 136

- a) 196 
- b) 190 
- c) 180 
- d) 186 

Explanation:


$$\begin{array}{ccccccc}
 325 & , & 271 & , & 226 & , & ? & , & 163 & , & 145 & , & 136 \\
 \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} \\
 -54 & & -45 & & -36 & & -27 & & -18 & & -9 & &
 \end{array}$$

$$\begin{aligned}
 ? &= 226 - 36 \\
 &= 190
 \end{aligned}$$

Q. 6

Which of the following numbers will replace the question mark (?) in the given series?

108, 99, 88, ?, 60, 43

a) 76 b) 75 c) 78 d) 77 

Explanation:


$$\begin{array}{cccccc}
 108 & , & 99 & , & 88 & , & ? & , & 60 & , & 43 \\
 \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} \\
 -9 & & -11 & & -13 & & -15 & & -17
 \end{array}$$

$$\begin{aligned}
 ? &= 88 - 13 \\
 &= 75
 \end{aligned}$$

Q. 7

Which number should replace the question mark (?) in the following number series?

49, 54, 44, 59, ?, 64, 34

a) 44 b) 39 c) 36 d) 51 

Explanation:





$$\begin{array}{cccccc}
 49 & , & 54 & , & 44 & , & 59 & , & ? & , & 64 & , & 34 \\
 \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} \\
 +5 & & -10 & & +15 & & -20 & & +25 & & -30
 \end{array}$$

$$\begin{aligned}
 ? &= 59 - 20 \\
 &= 39
 \end{aligned}$$

Q. 8

Select the number from among the given options that can replace the question mark (?) in the following series.

4, 11, 20, 31, 44, ?

- a) 63 
 b) 61 
 c) 59 
 d) 57 





Explanation:

$$\begin{array}{cccccc}
 4, & 11, & 20, & 31, & 44, & ? \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 +7 & +9 & +11 & +13 & +15 & \\
 ? = & 44 + 15 & & & & \\
 = & 59 & & & &
 \end{array}$$

Q. 9

Which of the following numbers will replace the question mark (?) in the given series?

15, ?, 27, 39, 55, 75

- a) 21 
 b) 18 
 c) 20 
 d) 19 





Explanation:

$$\begin{array}{cccccc}
 15, & ?, & 27, & 39, & 55, & 75 \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 +4 & +8 & +12 & +16 & +20 & \\
 ? = & 15 + 4 & & & & \\
 = & 19 & & & &
 \end{array}$$

Q. 10

Which of the following numbers will replace the question mark (?) in the given series?

19, 26, ?, 46, 59, 74

- a) 30 
- b) 35 
- c) 32 
- d) 33 

Explanation:





$$\begin{array}{ccccccc}
 19 & , & 26 & , & ? & , & 46 & , & 59 & , & 74 \\
 \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} \\
 +7 & +9 & +11 & +13 & +15 & & & & & &
 \end{array}$$

$$\begin{aligned}
 ? &= 26 + 9 \\
 &= 35
 \end{aligned}$$

Q. 11

Which number should replace the question mark (?) in the following number series?

512, 508, 500, 496, ?, 484

- a) 488 
- b) 490 
- c) 480 
- d) 484 

Explanation:





$$\begin{array}{ccccccc}
 512 & , & 508 & , & 500 & , & 496 & , & ? & , & 484 \\
 \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} \\
 -4 & +8 & -4 & -8 & -4 & & & & & &
 \end{array}$$

$$\begin{aligned}
 ? &= 496 - 8 = 488
 \end{aligned}$$

Q. 12

Which of the following numbers will replace the question mark (?) in the given series?

43, 52, 47, ?, 51, 60, 55

- a) 57 
- b) 49 
- c) 56 
- d) 53 





Explanation:

$$\begin{array}{ccccccc}
 43 & 52 & 47 & ? & 51 & 60 & 55 \\
 \cup & \cup & \cup & \cup & \cup & \cup & \\
 +9 & -5 & +9 & -5 & +9 & -5 & \\
 ? & = & 47 & + & 9 & & \\
 & = & 56 & & & &
 \end{array}$$

Q. 13

Select the number from among the given options that can replace the question mark (?) in the following series.

80, 73, 64, 53, 40, ?

- a) 23 
- b) 25 
- c) 33 
- d) 19 





Explanation:

$$\begin{array}{ccccccc}
 80 & 73 & 64 & 53 & 40 & ? & \\
 \cup & \cup & \cup & \cup & \cup & & \\
 -7 & -9 & -11 & -13 & -15 & & \\
 ? & = & 40 & - & 15 & & \\
 & = & 25 & & & &
 \end{array}$$

Q. 14

Which of the following numbers will replace the question mark (?) in the given series?

18, 23, ?, 41, 54, 71

- a) 34 
- b) 29 
- c) 30 
- d) 32 

Explanation:





$$\begin{array}{cccccc}
 18 & , & 23 & , & ? & , & 41 & , & 54 & , & 71 \\
 \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & & & & & & \\
 +5 & +7 & +9 & +13 & +17 & & & & & &
 \end{array}$$

$$\begin{array}{l}
 ? = 23 + 7 \\
 = 30
 \end{array}$$

Q. 15

Which of the following numbers will replace the question mark (?) in the given series?

11, ?, 29, 53, 101, 197

- a) 17 
- b) 19 
- c) 13 
- d) 21 

Explanation:

$$\begin{array}{cccccc}
 11 & , & ? & , & 29 & , & 53 & , & 101 & , & 197 \\
 \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & \underbrace{\hspace{1cm}} & & & & & &
 \end{array}$$

$$\begin{array}{l}
 \times 2 - 5, \times 2 - 5, \times 2 - 5, \times 2 - 5, \times 2 - 5 \\
 ? = 11 \times 2 - 5 \\
 = 17
 \end{array}$$


Q. 16

Select the number from among the given options that can replace the question mark (?) in the following series.

17, 24, 38, 59, 87, ?

a) 137 

b) 109 

c) 117 

d) 122 


Explanation:

$$\begin{array}{r}
 24, 38, 59, 87, ? \\
 \underbrace{\quad} \quad \underbrace{\quad} \quad \underbrace{\quad} \quad \underbrace{\quad} \\
 +14 \quad +21 \quad +28 \quad +35 \\
 ? = 87 + 35 \\
 = 122
 \end{array}$$

Q. 17

Which number would replace the question mark (?) in the following number series?

131, 132, 141, 166, 215, ?, 417

a) 294 

b) 296 

c) 286 

d) 300 

Explanation:

$$\begin{array}{r}
 131, 132, 141, 166, 215, ?, 417 \\
 \underbrace{\quad} \quad \underbrace{\quad} \quad \underbrace{\quad} \quad \underbrace{\quad} \quad \underbrace{\quad} \\
 +1 \quad +9 \quad +25 \quad +49 \quad +81 \quad +121 \\
 1^2, 3^2, 5^2, 7^2, 9^2, 11^2 \\
 ? = 215 + 81 \\
 = 296
 \end{array}$$

Q. 18


Which of the following numbers will replace the question mark (?) in the given series?

245, 212, ?, 146, 113, 80

a) 178 

b) 180 

c) 179 

d) 176 

Explanation:

$$\begin{array}{cccccc} 245 & , & 212 & , & ? & , & 146 & , & 113 & , & 80 \\ \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} \\ -33 & , & -33 & , & -33 & , & -33 & , & -33 & & \end{array}$$
$$\begin{aligned} ? &= 212 - 33 \\ &= 179 \end{aligned}$$

Q. 19


Which of the following numbers will replace the question mark (?) in the given series?

2, 6, ?, 54, 162, 486

a) 16 

b) 20 

c) 24 

d) 18 

Explanation:

$$\begin{array}{cccccc} 2 & , & 6 & , & ? & , & 54 & , & 162 & , & 486 \\ \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} & & \underbrace{\hspace{1.5cm}} \\ \times 3 & , & \times 3 & , & \times 3 & , & \times 3 & , & \times 3 & & \end{array}$$
$$? = 6 \times 3 = 18$$

Q. 20

Which number should replace the question mark (?) in the following number series?

32, 54, 98, 186, ?, 714

a) 362 b) 450 c) 452 d) 354 


Explanation:

$$\begin{array}{ccccccc}
 32 & 54 & 98 & 186 & ? & 714 \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 +22 & +44 & +88 & +176 & +352 & \\
 \\
 ? & = & 186 & + & 176 & \\
 & = & 362 & & &
 \end{array}$$

Q. 21

Which of the following numbers will replace the question mark (?) in the given series?

1, 4, 27, 16, 125, ?

a) 49 b) 343 c) 36 d) 216 

Explanation:


$$\begin{array}{ccccccc}
 1 & 4 & 27 & 16 & 125 & ? \\
 (1)^3 & (2)^2 & (3)^3 & (4)^2 & (5)^3 & (6)^2 \\
 \\
 ? & = & (6)^2 & \rightarrow & 36 &
 \end{array}$$

Q. 22

Select the number from among the given options that can replace the question mark (?) in the following series.

31, 37, 46, 60, 81, ?

a) 117 

b) 111 

c) 122 

d) 106 

Explanation:


$$\begin{array}{cccccc}
 31 & 37 & 46 & 60 & 81 & ? \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \\
 +6 & +9 & +14 & +21 & +30 & \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & & \\
 +3 & +5 & +7 & +9 & & \\
 ? = 81 + 30 & & & & & \\
 = 111 & & & & &
 \end{array}$$


Q. 23

Which of the following numbers will replace the question mark (?) in the given series?

27, 38, ?, 68, 87, 110

a) 50 

b) 51 

c) 53 

d) 47 


Explanation:

$$\begin{array}{cccccc}
 27 & 38 & ? & 68 & 87 & 110 \\
 \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \underbrace{\quad} & \\
 +11 & +13 & +17 & +19 & +23 & \\
 ? = 38 + 13 & & & & & \\
 = 51 & & & & &
 \end{array}$$

Q. 24

Which of the following numbers will replace the question mark (?) in the given series?

3, 8, 15, 26, 39, ?

a) 49 b) 52 c) 56 d) 61 


Explanation:

$$\begin{array}{ccccccc}
 3, & 8, & 15, & 26, & 39, & ? \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 +5 & +7 & +11 & +13 & +17 & \\
 ? = 39 + 17 \\
 = 56
 \end{array}$$

Q. 25

Which of the following numbers will replace the question mark (?) in the given series?

57, 69, 88, 112, 150, 186, 243, ?

a) 289 b) 291 c) 300 d) 286 

Explanation:

$$\begin{array}{cccccccc}
 57, & 69, & 88, & 112, & 150, & 186, & 243, & ? \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 +31 & & +43 & & +62 & & +93 & \\
 & \downarrow & & \downarrow & & \downarrow & & \\
 & +31 & & +74 & & +105 & & \\
 & & \downarrow & & \downarrow & & & \\
 & & +31 & & +31 & & & \\
 ? = 186 + 105 \\
 = 291
 \end{array}$$

Q. 26

Which of the following numbers will replace the question mark (?) in the given series?

32, ? , 44, 56, 72, 92

a) 36 ✓

b) 38 ✗

c) 40 ✗

d) 34 ✗

Explanation:

$$\begin{array}{ccccccc} 32, & ? & , & 44 & , & 56 & , & 72 & , & 92 \\ \text{+4} & \text{+8} & & \text{+12} & & \text{+16} & & \text{+20} \\ ? & = & 32 & + & 4 \\ & = & 36 \end{array}$$

Q. 27

Which of the following numbers will replace the question mark (?) in the given series?

8, 14, ? , 44, 68, 98, 134

a) 28 ✗

b) 20 ✗

c) 36 ✗

d) 26 ✓



Explanation:

$$\begin{array}{ccccccc} 8, & 14, & ? & , & 44, & 68, & 98, & 134 \\ \text{+6} & \text{+12} & \text{+18} & \text{+24} & \text{+30} & \text{+36} \\ ? & = & 14 & + & 12 \\ & = & 26 \end{array}$$

Q. 28

Which of the following numbers will replace the question mark (?) in the given series?

2, 10, 40, 120, 240, ?

a) 480 b) 300 c) 240 d) 360 

Explanation:



$$\begin{array}{ccccccc}
 2 & , & 10 & , & 40 & , & 120 & , & 240 & , & ? \\
 \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\
 \times 5 & & \times 4 & & \times 3 & & \times 2 & & \times 1 & &
 \end{array}$$

$$? = 240$$

Q. 29

Which of the following numbers will replace the question mark (?) in the given series?

214, 207, 193, ?, 144, 109

a) 117 b) 170 c) 172 d) 175 

Explanation:





$$\begin{array}{ccccccc}
 214 & , & 207 & , & 193 & , & ? & , & 144 & , & 109 \\
 \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\
 -7 & & -14 & & -21 & & -28 & & -35 & &
 \end{array}$$

$$\begin{aligned}
 ? &= 193 - 21 \\
 &= 172
 \end{aligned}$$

Q. 30

Select the number from among the given options that can replace the question mark (?) in the following series.

2, 6, 9, 27, 30, 90, ?

- a) 85 
- b) 93 
- c) 90 
- d) 88 

Explanation:

2, 6, 9, 27, 30, 90, ?





$\times 3 \quad +3 \quad \times 3 \quad +3 \quad \times 3 \quad +3$

$$\begin{aligned} ? &= 90 + 3 \\ &= 93 \end{aligned}$$

Q. 31

Which of the following numbers will replace the question mark (?) in the given series?

232, 221, 199, ?, 122, 67

- a) 177 
- b) 166 
- c) 165 
- d) 155 

Explanation:

232, 221, 199, ?, 122, 67

$-11 \quad -22 \quad -33 \quad -44 \quad -55$

$$\begin{aligned} ? &= 199 - 33 \\ &= 166 \end{aligned}$$

Q. 32

Which of the following numbers will replace the question mark (?) in the given series?

11, 36, ?, 121, 185, 266

a) 72 ✓

b) 68 ✗

c) 63 ✗

d) 70 ✗

Explanation:

$$\begin{array}{cccccc}
 11, & 36, & ?, & 121, & 185, & 266 \\
 \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\
 +25, & +36, & +49, & +64, & +81 & \\
 \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \\
 (5)^2 & (6)^2 & (7)^2 & (8)^2 & (9)^2 &
 \end{array}$$

$$\begin{aligned}
 ? &= 36 + 36 \\
 &= 72
 \end{aligned}$$

Q. 33

Which of the following numbers will replace the question mark (?) in the given series?

11, ?, 20, 29, 41, 56

a) 13 ✗

b) 14 ✓

c) 16 ✗

d) 15 ✗

Explanation:

$$\begin{array}{cccccc}
 11, & ?, & 20, & 29, & 41, & 56 \\
 \uparrow & \uparrow & \uparrow & \uparrow & \uparrow & \uparrow \\
 +3 & +6 & +9 & +12 & +15 &
 \end{array}$$


$$\begin{aligned}
 ? &= 11 + 3 \\
 &= 14
 \end{aligned}$$

Q. 34

Which of the following numbers will replace the question mark (?) in the given series?

3, 12, ?, 39, 57, 78

a) 19 

b) 24 

c) 22 

d) 20 


Explanation:

$$\begin{array}{ccccccc} 3 & , & 12 & , & ? & , & 39 & , & 57 & , & 78 \\ & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & & & & & \\ & +9 & +12 & +15 & +18 & +21 & & & & & \end{array}$$
$$\begin{aligned} ? &= 12 + 12 \\ &= 24 \end{aligned}$$

Q. 35

Select the number from among the given options that can replace the question mark (?) in the following series.

2, 4, 12, 48, 240, ?

a) 720 

b) 1440 

c) 480 

d) 360 



Explanation:

$$\begin{array}{ccccccc} 2 & , & 4 & , & 12 & , & 48 & , & 240 & , & ? \\ & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & & & & & \\ & \times 2 & \times 3 & \times 4 & \times 5 & \times 6 & & & & & \end{array}$$
$$\begin{aligned} ? &= 240 \times 6 \\ &= 1440 \end{aligned}$$

Q. 36

Which of the following numbers will replace the question mark (?) in the given series?

17, ?, 35, 53, 77, 107

a) 28 b) 21 c) 23 d) 25 

Explanation:



$$\begin{array}{ccccccc}
 17 & , & ? & , & 35 & , & 53 & , & 77 & , & 107 \\
 \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\
 +6 & +12 & +18 & +24 & +30
 \end{array}$$

$$\begin{aligned}
 ? &= 17 + 6 \\
 &= 23
 \end{aligned}$$

Q. 37

Which of the following numbers will replace the question mark (?) in the given series?

27, ?, 101, 138, 175, 212, 249

a) 64 b) 66 c) 72 d) 59 

Explanation:



$$\begin{array}{ccccccc}
 27 & , & ? & , & 101 & , & 138 & , & 175 & , & 212 & , & 249 \\
 \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow & & \uparrow \\
 +37 & +37 & +37 & +37 & +37 & +37 & +37
 \end{array}$$

$$\begin{aligned}
 ? &= 27 + 37 \\
 &= 64
 \end{aligned}$$

Q. 38

Which of the following numbers will replace the question mark (?) in the given series?

15, 17, ?, 33, 47, 65

a) 30 b) 21 c) 23 d) 20 

Explanation:




$$\begin{array}{ccccccc}
 15 & , & 17 & , & ? & , & 33 & , & 47 & , & 65 \\
 \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow \\
 +2 & & +6 & & +8 & & +14 & & +18
 \end{array}$$

$$\begin{aligned}
 ? &= 17 + 6 \\
 &= 23
 \end{aligned}$$

Q. 39

Which number should replace the question mark (?) in the following number series?

5475, 1100, 225, 50, ?, 8, 6.6

a) 15 b) 20 c) 25 d) 30 


Explanation:


$$\begin{array}{ccccccc}
 5475 & , & 1100 & , & 225 & , & 50 & , & ? & , & 8 & , & 6.6 \\
 \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow \\
 -4375 & , & -875 & , & -175 & , & -35 & , & -7 & , & -1.4 \\
 \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow & & \swarrow \\
 \times \frac{1}{5} & & \times \frac{1}{5} & & \times \frac{1}{5} & & \times \frac{1}{5} & & \times \frac{1}{5}
 \end{array}$$

Q. 40


Which number should replace the question mark (?) in the following number series?

642, 598, 554, ?, 466, 422

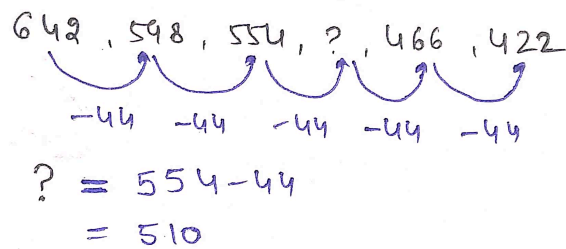
a) 514 

b) 524 

c) 500 

d) 510 

Explanation:


$$\begin{array}{ccccccc} 642 & , & 598 & , & 554 & , & ? & , & 466 & , & 422 \\ & \swarrow & \downarrow & \swarrow & \downarrow & \swarrow & \downarrow & \swarrow & \downarrow & \swarrow & \downarrow \\ & -44 & & -44 & & -44 & & -44 & & -44 & \end{array}$$
$$\begin{aligned} ? &= 554 - 44 \\ &= 510 \end{aligned}$$

Q. 41

Which of the following numbers will replace the question mark (?) in the given series?

$$\left[\frac{1}{176}\right], \left[\frac{1}{88}\right], ?, \left[\frac{1}{22}\right], \left[\frac{1}{11}\right]$$

a) $\left[\frac{1}{48}\right]$ ✗

b) $\left[\frac{1}{32}\right]$ ✗

c) $\left[\frac{1}{42}\right]$ ✗

d) $\left[\frac{1}{44}\right]$ ✓

Explanation:

$$\begin{array}{ccccccc} \frac{1}{176} & , & \frac{1}{88} & , & ? & , & \frac{1}{22} & , & \frac{1}{11} \\ & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \nearrow & \\ & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \times 2 & \end{array}$$
$$\begin{aligned} ? &= \frac{1}{88} \times 2 \\ &= \frac{1}{44} \end{aligned}$$