

# Important Number Series Questions for IBPS SO Pre

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**SOLUTIONS****1. Answer is option B****Explanation:**

$$4+1^2+1=6$$

$$6+2^2+2=12$$

$$12+3^2+3=24$$

$$24+4^2+4=44$$

$$44+5^2+5=74$$

$$74+6^2+6=116$$

**2. Answer is option E****Explanation:**

$$6 \times .5 = 3$$

$$3 \times 1 = 3$$

$$3 \times 2 = 6$$

$$6 \times 4 = 24$$

$$24 \times 8 = 192$$

**3. Answer is option A****Explanation:**

$$15 \div 1 = 15$$

$$15 \times 2 = 30$$

$$30 \div 3 = 10$$

$$10 \times 4 = 40$$

$$40 \div 5 = 8$$

$$8 \times 6 = 48$$

**4. Answer is option E****Explanation:**

$$4 \times 1 + 1 = 5$$

$$5 \times 2 + 2 = 12$$

$$12 \times 3 + 3 = 39$$

$$39 \times 4 + 4 = 160$$

$$160 \times 5 + 5 = 805$$

**5. Answer is option B****Explanation:**

$$9 \times 1 + 1 = 10$$

$$10 \times 2 - 2 = 18$$

$$18 \times 3 + 3 = 57$$

$$57 \times 4 - 4 = 224$$

$$224 \times 5 + 5 = 1125$$

**6. Answer is option A****Explanation:**

$$11, 10, 18, 68, ?$$

$$11 \times 1 - 1 = 10$$

$$10 \times 2 - 2 = 18$$

$$18 \times 4 - 4 = 68$$

$$68 \times 8 - 8 = 536$$

**7. Answer is option E****Explanation:**

$$6, 10, 16, 26, 42, 66, ?$$

$$\begin{array}{cccccc} \vee & \vee & \vee & \vee & \vee & \vee \\ 4 & 6 & 10 & 16 & 24 & 34 \\ \vee & \vee & \vee & \vee & \vee & \\ 2 & 4 & 6 & 8 & 10 & \end{array}$$

There should be  $66+34 = 100$ **8. Answer is option B****Explanation:**

$$6, 6, 9, 18, 45, ?$$

$$6 \times 1 = 6$$

$$6 \times 1.5 = 9$$

$$9 \times 2 = 18$$

$$18 \times 2.5 = 45$$

$$45 \times 3 = 135$$

**9. Answer is option D****Explanation:**

$$2, 12, 36, 80, ?, 252, 392$$

$$1^2+1^3 = 2$$

$$2^2+2^3 = 12$$

$$3^2+3^3 = 36$$

$$4^2+4^3 = 80$$

$$5^2+5^3 = 150$$

$$6^2+6^3 = 252$$

$$7^2+7^3 = 392$$

**10. Answer is option D****Explanation:**

$$2, 6, 33, 49, 174, 210, ?$$

$$1+1^3 = 2$$

$$2+2^2 = 6$$

$$6+3^3 = 33$$

$$33+4^2 = 49$$

$$49+5^3 = 174$$

$$174+6^2 = 210$$

$$210+7^3 = 553$$

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