

QNo:- 96 ,Correct Answer:- 4851

Explanation:- The given series has 24 terms and hence can be written as:

$$48n + [1+3+5+\dots+47] = 5280$$

$$48n + 576 = 5280$$

$$\text{So, } n = 98$$

$$1+2+3+\dots+98 = \frac{98 \times 99}{2} = 4851$$

QNo:- 97 ,Correct Answer:- 150

Explanation:- Using the formula : each interior angle for a regular polygon having n sides =

$$\frac{(n-2)}{n} 180^\circ$$

Given that,

$$3/2 \text{ times of } \frac{(a-2)}{a} 180^\circ = \frac{(2a-2)}{2a} 180^\circ \quad (\text{because } b = 2a)$$

$$\Rightarrow 3a-6=2a-2$$

$$\Rightarrow a = 4 \text{ and } b = 8$$

$$\Rightarrow a + b = 12$$

Then each interior angle (in degrees) for a regular polygon having 12 sides

$$= \frac{(12-2)180}{12} = 150$$

QNo:- 98 ,Correct Answer:- C

Explanation:- Let the job was done in x days then given that, 90 % of the job was done by Anil and Sunil, so the work done by them is 0.9

$$\frac{x}{20} + \frac{x-3}{40} = \frac{9}{10}$$

$$x = 13$$

So the answer is 13 days

QNo:- 99 ,Correct Answer:- 20920

Explanation:- Let the amount invested by Bimal is x Rs

$$\text{The interest earned by Amal} = 8\% \text{ of } 12,000 + 10,000 (1 + 6/200)^2 - 10,000$$

$$= 960 + 609 = 1569$$

$$\text{The interest earned by Bimal} = x \times \frac{7.5}{100} \times 1$$

Since both got the same amount of interest

$$\text{So, } 1569 = x \times \frac{7.5}{100}$$

$$\text{So, } x = 20920$$

QNo:- 100 ,Correct Answer:- B

Explanation:- The amount paid by Bimal = $x = p \times 1.2 \times 1.3 = 1.56p$

The amount paid by Barun = $y = p \times 0.8 \times 0.7 = .56p$

$$\frac{x-y}{p} = \frac{p}{p} = 1$$