

Banking Daily Quiz Blog - August 23



1. A is 25% more efficient than B and A can complete the work alone in 20 days. A work first two days alone, then find in how many days remaining work will be completed if both work together ?

A 18 days

B 15 days

C 10 days

D 12 days

E None of these

Solution

As per data given in option

$$A : B = 125 : 100$$

$$= 5 : 4$$

$$\text{Let Total work} = 20 \times 5 = 100 \text{ units}$$

$$\text{Remaining work} = 100 - 5 \times 2 = 90 \text{ units}$$

$$\text{Required days} = \frac{90}{4+5} = 10 \text{ days}$$

2. Read the instruction given below carefully and answer the questions based on it.

What value should come in the place of question mark in the given questions?

A. $0.3 + 3.3 + 33.33 + 333.333 + 3.73 + 33.007 = ?$

A 405

B 409

C 407

D 411

E 413

Solution

$$0.3 + 3.3 + 33.33 + 333.333 + 3.73 + 33.007 = ?$$

$$407 = ?$$

B. $22 \times 12 + 1205 - 1321 = ?$

A 145

B 146

C 154

D 142

E 148

Solution

$$22 \times 12 + 1205 - 1321 = ?$$

$$264 + 1205 - 1321 = ?$$

$$? = 148$$

c. $37.5\% \text{ of } 80\% \text{ of } 730 + 160\% \text{ of } 250 - ? = 120\% \text{ of } 400$

A 139

B 133

C 129

D 149

E 119

Solution

$$37.5\% \text{ of } 80\% \text{ of } 730 + 160\% \text{ of } 250 - ? = 120\% \text{ of } 400$$

$$219 + 400 - ? = 480$$

$$139 = ?$$

D. $\sqrt{625} \times \sqrt{6241} - 768 \times 3 + \sqrt{15129} + 106 \times 2 = ?$

A 4

B 5

C 7

D 8

E 6

Solution

$$\sqrt{625} \times \sqrt{6241} - 768 \times 3 + \sqrt{15129} + 106 \times 2 = ?$$

$$25 \times 79 - 2304 + 123 + 212 = ?$$

$$6 = ?$$

E. $(5926 - 6729 + 7498 - 3719 - 2937) \times \sqrt{11449} = ?$

A 4173

B 4223

C 4273

D 4073

E 4163

Solution

$$(5926 - 6729 + 7498 - 3719 - 2937) \times \sqrt{11449} = ?$$

$$39 \times 107 = ?$$

$$4173 = ?$$

3. The area of square is 5776 sq m. The breadth of a rectangle is 25% of the side of the square and the length of the rectangle is 300% of the breadth. Area of the rectangle is 303 cm less than to the area of the circle. What is the difference between the perimeter of the rectangle and the circumference of the rectangle?

A 25 m

B 18 m

C 10 m

D 15 m

E 20 m

Solution

$$\text{Area of the square} = 5776 \text{ m}^2$$

$$\text{Side of the square} = 76 \text{ m}$$

$$\text{Breadth of the rectangle} = 76 \times \frac{25}{100} = 19 \text{ m}$$

$$\text{Length} = 19 \times \frac{300}{100} = 57 \text{ m}$$

$$\text{Area of the rectangle} = 57 \times 19 = 1083 \text{ m}^2$$

$$\text{Perimeter of the rectangle} = 2(57 + 19) = 152 \text{ m}$$

$$\text{Area of the circle} = 1083 + 303 \text{ m}^2$$

$$\frac{22}{7} \times r \times r = 1386$$

$$r \times r = 63 \times 7$$

$$r = 21 \text{ m}$$

$$\text{Circumference of the circle} = 2 \times \frac{22}{7} \times 21 = 132 \text{ m}$$

$$\text{Difference} = 152 - 132 = 20 \text{ m}$$

4. A, B and C enter into a partnership. A invests some amount at the beginning. B invests double the amount after four months and C invests thrice the amount invested by A after six months. They earn a profit of Rs. 23000 at the end of the year. What is the C's share in the profit?

A Rs. 8500

B Rs. 8000

C Rs. 8000

D Rs. 9000

E None of these

Solution

A's investment = x

$B = 2x$

$C = 3x$

Ratio of profit = $x \times 12 : 2x \times 8 : 3x \times 6$

= $12x : 16x : 18x = 6 : 8 : 9$

C's share = $\frac{9}{23} \times 23000 = \text{Rs. } 9000$

