

# Banking Daily Quiz Blog - January 31



1. An article was marked up by 50% above cost price and allowed Rs 50 discount on marked price. If shopkeeper still made a profit of Rs. 50, then find the selling price of the article (in Rs.)?

A Rs. 350

B Rs. 300

C Rs.250

D Rs.200

E Rs. 150

### Solution

Let cost price of article =  $100x$

So, marked price of article =  $100x \times \left(1 + \frac{50}{100}\right) = 150x$

And, selling price of article =  $(150x - 50)$  Rs.

ATQ –

$$(150x - 50) - 100x = 50$$

$$50x = 100$$

$$x = 2$$

$$\text{So, selling price of article} = (150 \times 2 - 50) = 250$$

2. A & B invested Rs. X and Rs. (X + 800) for same period of time in a business. If A gets Rs. 3200 as profit share out of total profit of Rs. 6800, then find 'X'?

A 7800

B 6000

C 8400

D 7200

E 6400

### Solution

ATQ –

$$\frac{X}{(X+800)} = \frac{3200}{(6800-3200)}$$
$$X = 6400$$

3. A vessel contains mixture of milk and water in the ration of 3 : 1 respectively. If 20 liters mixture taken out from the vessel and now the difference between milk and water in the remaining mixture is 70

liters, then find initial mixture in vessel (in liters)?

A 240

**B 160**

C 120

D 80

E 180

### Solution

Let total initial mixture in vessel =  $4x$

So, milk in vessel =  $3x$

And water in vessel =  $x$

$$\left(3x - 20 \times \frac{3x}{4x}\right) - \left(x - 20 \times \frac{x}{4x}\right) = 70$$

$$(3x - 15) - (x - 5) = 70$$

$$2x = 80$$

$$x = 40$$

So, initial mixture in vessel =  $4x = 4 \times 40 = 160$  liters

4. Perimeter of a rectangle is 2 cm more than circumference of a circle and area of circle is  $616 \text{ cm}^2$ . If breath of rectangle is equal to radius of

circle, then find length of rectangle (in cm)?

A 35

B 33

C 31

D 21

E 27

### Solution

Let radius of circle be 'r' cm

ATQ –

$$\frac{22}{7} \times r \times r = 616$$

$$r = 14\text{cm} = \text{breath of rectangle}$$

Let length of rectangle be 'l' cm

Perimeter of rectangle = circumference of a circle + 2

$$2(14 + l) = 2 \times \frac{22}{7} \times 14 + 2$$

$$2(14 + l) = 90$$

$$l = 31\text{cm}$$

5. Speed of a boat in still water is 12 km/hr more than its upstream speed. If downstream speed of boat is 30 km/hr, then in how much time will boat cover 96 km upstream?

**A** 16 hours

**B** 9.6 hours

**C** 8 hours

**D** 12 hours

**E** 24 hours

### Solution

Here, downstream speed = 30 km/hr

Speed of boat in still water - upstream speed = stream speed = 12 km/hr

Then, upstream speed =  $30 - 2 \times 12 = 6$  km/hr

Therefore, time taken by boat to cover 96 km upstream =  $\frac{96}{6} = 16$  hours

**What should come in place of question mark (?) in following questions?**

6.  $(48\% \text{ of } 625) \div 0.75 = ?$

A 800

B 400

C 4000

D 40

E None of these

### Solution

$$\frac{48}{100} \times 625 \times \frac{4}{3} = ?$$
$$? = 400$$

**What should come in place of question mark (?) in following questions?**

7.  $\frac{((4)^3 + (18)^2)}{7^2 + 121 - 73} = ?$

A 1

B 2

C 4

D 5

E 3

**Solution**

$$\frac{64+324}{97} = ?$$

$$? = 4$$

8.

$$(4)^? \times 2 = \frac{(16)^2}{\sqrt[4]{16}}$$

A 1

B 2

C 3

D 4

E 5



### Solution

$$4^? \times 2 = \frac{256}{2}$$

$$4^? = 64$$

$$4^? = (4)^3$$

$$? = 3$$

9.  $4 \times (? + 120) = (8)^3$

A 4

B 6

C 8

D 12

E 16

### Solution

$$4 \times ? = 512 - 480$$

$$? = \frac{32}{4}$$

$$? = 8$$

**What should come in place of question mark (?) in following questions?**

10.  $? + 432 - 206 = 550$

**A** 384

**B** 244

**C** 224

**D** 276

**E** 324

**Solution**

$$? + 432 - 206 = 550$$

$$? = 550 - 226$$

$$? = 324$$