# 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 =  $100x \times (1 + \frac{50}{100}) = 150x$ 

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

ATQ –

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

$$50x = 100$$

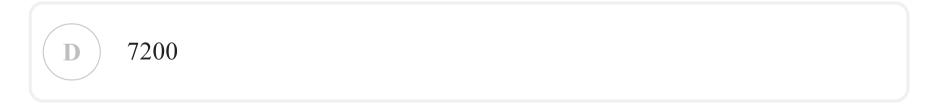
$$x = 2$$

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'?









#### **Solution**

7800

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

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)?











#### **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 cm<sup>2</sup>. If breath of rectangle is equal to radius of

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



**B** 33



D

21



#### **Solution**

Let radius of circle be 'r' cm

ATQ –

$$rac{22}{7} imes r imes r=616$$

r = 14cm = breath of rectangle

Let length of rectangle be 'l' cm

Perimeter of rectangle = circumference of a circle +2

$$2(14+l)=2 imesrac{22}{7} imes14+2$$

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

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

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



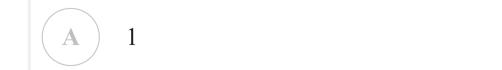


#### **Solution**

$$rac{48}{100} imes 625 imes rac{4}{3} = ?$$
  
? = 400

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

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





# **Solution**

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

$$(4)^? imes 2 = rac{(16)^2}{\sqrt[4]{16}}$$

$$\left(\mathbf{A}\right)$$
 1



$$\left(\begin{array}{c}\mathbf{E}\end{array}\right)$$
 5

#### **Solution**

$$4^{?} \times 2 = \frac{256}{2}$$
 $4^{?} = 64$ 
 $4^{?} = (4)^{3}$ 
 $? = 3$ 

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











## **Solution**

$$? + 432 - 206 = 550$$

$$? = 550 - 226$$

$$? = 324$$



