



## Simplification Questions for SBI Clerk Set-2 PDF

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### Instructions

For the following questions answer them individually

#### Question 1

If  $2x + 5y = 109$  and  $2x + 5 = y + 12$  then  $y - x = ?$

- A 7
- B 6
- C 8
- D 9
- E None of these

Answer: E

#### Explanation:

$$2x + 5y = 109 \text{ -----Eqn(1)}$$

$$2x + 5 = y + 12$$

$$\Rightarrow 2x - y = 7 \text{ -----Eqn(2)}$$

Subtracting eqn(2) from eqn(1), we get :

$$\Rightarrow 6y = 102$$

$$\Rightarrow y = 17 \text{ and } x = 12$$

$$\therefore y - x = 17 - 12 = 5$$

#### Question 2

$$\frac{\sqrt{7744} \times 66}{203 + 149} = ?$$

- A 15
- B 18.5
- C 20
- D 16.5
- E None of these

Answer: D

#### Explanation:

$$\text{Expression : } \frac{\sqrt{7744} \times 66}{203 + 149} = ?$$

$$= \frac{88 \times 66}{352}$$

$$= \frac{66}{4} = 16.5$$

#### Question 3

What is the value of (x) in the following equation?

$$(x)^{0.7} = \frac{9}{36} = (x)^{1.3}$$

- A 17
- B 19

- C 16
- D 14
- E None of these

**Answer: E**

**Explanation:**

Expression :  $(x)^{0.7} \cdot 36 = (x)^{1.3} \cdot 9$

$\Rightarrow (x)^{0.7+1.3} = 9 \times 36$

$\Rightarrow (x)^2 = 324$

$\Rightarrow x = \sqrt{324} = 18$

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**Question 4**

Which value of x does satisfy the inequality  $2x^2 + x - 3 < 0$ ?

- A  $-3/2 < x < 1$
- B  $-1 < x < 2/3$
- C  $x > 1$
- D  $x < -2/5$
- E None of these

**Answer: A**

**Explanation:**

Inequality :  $2x^2 + x - 3 < 0$

$\Rightarrow 2x^2 - 2x + 3x - 3 < 0$

$\Rightarrow 2x(x - 1) + 3(x - 1) < 0$

$\Rightarrow (2x + 3)(x - 1) < 0$

$\Rightarrow \frac{-3}{2} < x < 1$

**Question 5**

$7^2 + 3^4 - 4^3 = ? - 11^2$

- A 55
- B 196
- C 172
- D 187
- E None of these

**Answer: D**

**Explanation:**

Let unknown quantity be 'x'.

$$7^2 + 3^4 - 4^3 = x - 11^2.$$

$$49 + 81 - 64 = x - 121.$$

$$x = 187.$$

Hence, Option D is correct.

#### Question 6

1/5 of 2/7 of 8/3 of 4095 ?

A 642

B 598

C 648

D 475

E None of these

Answer: E

#### Explanation:

1/5 of 2/7 of 8/3 of 4095.

$$= \frac{1}{5} \times \frac{2}{7} \times \frac{8}{3} \times 4095.$$

$$= 624.$$

Hence, Option E is correct.

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#### Question 7

$$\sqrt{3969} \div 1.4 = ? \times 2.5$$

A 18

B 112.5

C 16

D 24

E None of these

Answer: A

#### Explanation:

Let the unknown quantity be ' $x$ '.

$$\sqrt{3969} \div 1.4 = x \times 2.5.$$

$$63 \div 1.4 = x \times 2.5.$$

$$x = 45 \div 2.5.$$

$$x = 18.$$

Hence, Option A is correct.

#### Question 8

If  $3y + 2x = 47$  and  $11x = 7y$  then what is value of  $y - x$  ?

A 4

B 6

- C 7  
D 5  
E None of these

**Answer: A**

**Explanation:**

This is a system of two equations with two unknowns.

$$3y + 2x = 47 \text{ and}$$
$$11x = 7y$$

Multiplying the first equation by 7, we get  $21y + 14x = 329$   
And, multiplying the second equation by 3, we get  $33x = 21y$

$$\text{So, } 21y + 14x = 329 \text{ or } 33x + 14x = 329$$
$$\text{Hence, } 47x = 329$$

$$\text{So, } x = 7 \text{ and } y = 11$$

Therefore,  $y - x = 4$  and the correct answer is option (a)

**Question 9**

If  $2x + 3y + z = 55$ ,  $x + z - y = 4$  and  $y - x + z = 12$ , then what is the value of  $y$  ?

- A 7  
B 8  
C 12  
D 9  
E None of these

**Answer: E**

**Explanation:**

We have a group of three equations in three unknowns.

$$2x + 3y + z = 55,$$
$$x + z - y = 4$$
$$\text{and } y - x + z = 12$$

Adding the second and third equations together, we get  $2z = 16$  or  $z = 8$

Adding the first equation and twice the third equation, we get  $(2x + 3y + z) + 2*(y-x+z) = 55 + 2*12 = 79$

Hence,  $5y + 3z = 79$ .

As  $z=8$ , it implies that  $5y = 55$  or  $y=11$

As this is not given in any of the options, the correct answer is option (e)

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**Instructions**

In each of the questions a pair of equations is given. You have to find out the values of  $x$  and  $y$  and give answer.

**Question 10**

I.  $2x^2 - 7x + 6 = 0$

II.  $4y^2 = 9$

- A if  $x < y$

B if  $x \leq y$

C if  $x = y$

D if  $x > y$

E if  $x \geq y$

Answer: E

Explanation:

I.  $2x^2 - 7x + 6 = 0$  II.  $4y^2 = 9$

1 implies  $2x^2 - 4x - 3x + 6 = 0$

So,  $(2x - 3)(x - 2) = 0$

ie  $x = 3/2$  or  $x = 2$

2 implies  $y = \pm 2^{\frac{3}{2}}$

So,  $x \geq y$

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