

## Simplification - Online Quiz

Following quiz provides Multiple Choice Questions (MCQs) related to **Simplification**. You will have to read all the given answers and click over the correct answer. If you are not sure about the answer then you can check the answer using **Show Answer** button. You can use **Next Quiz** button to check new set of questions in the quiz.



**Q 1 -  $219/13 - 31/9 + 483/26 = ?$**

A - 2597

B - 5393

C - 7537

D - None of these

**Answer : D**

**Explanation**

$$\begin{aligned}\text{Give Exp} &= 219/13 - 31/9 + 489/26 = (219/13 + 489/26 - 31/9) \\ &= (438 + 489/2 - 31/9) = (927/2 - 31/9) = (8343 - 806) / 234 \\ &= 7537/234\end{aligned}$$

Show Answer

**Q 2 - 108 / 36 of  $1/3 + 2/5 * 15/4 = ?$**

A -  $35/4$

B -  $25/4$

C -  $5/2$

D -  $21/2$

**Answer : D**

**Explanation**

$$\begin{aligned}\text{given exp.} &= 108/36 \text{ of } 1/3 + 2/5 * 15/4 \\ &= 108/12 + 2/5 * 15/4 = 9 + 3/2 = 21/2\end{aligned}$$

[Hide Answer](#)

**Q 3 - By how much does  $6/7/8$  exceed  $6/7/8$ ?**

A - 49

B -  $27/4$

C -  $31/4$

D -  $47/6$

**Answer : B**

**Explanation**

$$\begin{aligned}\text{Required excess} &= 6/(7/8) - (6/7)/8 = (6*8)/7 - 6/(7*8) = 48/7 - 6/56 = 48/7 - 3/28 \\ &= (192-3)/28 = 189/28 = 27/4\end{aligned}$$

[Hide Answer](#)

**Q 4 -  $[8/7-2/3+2/5/(1-1/25)]/[1-1/7\{1/3+2/5/(1-2/5)\}] = ?$**

A -  $3/4$

B -  $24/25$

C - 1

D - 25/24

**Answer : D****Explanation**

given exp. =  $\left[ \frac{8}{7} - \frac{2}{3} + \left( \frac{2}{5} \div \left( \frac{24}{25} \right) \right) \right] / \left[ 1 - \frac{1}{7} \left\{ \frac{1}{3} + \left( \frac{2}{5} \right) / \left( \frac{3}{5} \right) \right\} \right] = \left[ \frac{8}{7} - \frac{2}{3} + \left( \frac{2}{5} \times \frac{25}{24} \right) \right] / \left[ 1 - \frac{1}{7} \left\{ \frac{1}{3} + \frac{2}{3} \right\} \right]$   
 $= \left[ \frac{8}{7} - \frac{2}{3} + \frac{5}{12} \right] / \left[ 1 - \frac{1}{7} \times 1 \right] = \left[ \frac{96 - 56 + 35}{84} \right] / \left[ \frac{6}{7} \right] = \left( \frac{75}{84} \times \frac{7}{6} \right) = \frac{25}{24}$

[Show Answer](#)**Q 5 -  $5 / 3 + 3 / (1 - 2/3) = ?$** 

A - 3/5

B - 5/3

C - 5/12

D - 5

**Answer : C**

**Explanation**

$$\begin{aligned}\text{given exp.} &= 5/3 + 3/(1/3) \\ &= 5/3 + 9 \\ &= 5/12\end{aligned}$$

[Hide Answer](#)**Q 6 -  $1/[1 + 1/\{1 + 1/(1 + 1/2)\}] = ?$** A -  $1/2$ B -  $5/8$ 

C - 1

D - 2

**Answer : B****Explanation**

$$\begin{aligned}\text{given exp.} &= 1/[1 + 1/\{1 + 1/(1 + 1/2)\}] \\ &= 1/[1 + 1/\{1 + 1/3/2\}] = 1/[1 + 1/\{1 + 1*2/3\}] \\ &= 1/[1 + 1/5/3] = 1/[1 + 1*3/5] = 1/[1 + 3/5] = 1/8/5 = 1*5/8 = 5/8\end{aligned}$$

[Show Answer](#)

**Q 7 - if  $(a+2b)=6$  and  $ab = 4$  , then  $(2/a+1/b) = ?$**

A -  $1/2$

B -  $1/3$

C -  $3/2$

D - 2

**Answer : C**

**Explanation**

$$(2/a + 1/b) = (a + 2b)/ab = 6/4 = 3/2.$$

Hide Answer

**Q 8 - if  $x=(1-a)$ ,  $y=(2a+1)$  and  $x = y$  , then  $a = ?$**

A - 2

B -  $1/2$

C - 0

D - -1

**Answer : C**

**Explanation**

$$x = y \Rightarrow (1-a) = (2a+1) \Rightarrow 3a = 0 \Rightarrow a = 0.$$

Show Answer

**Q 9 -  $((856+167)^2 + (856-167)^2) / (856*856 + 167*167) = ?$**

A - 1

**B - 2**

C - 689

D - 1023

**Answer : B**

**Explanation**

$$\begin{aligned} \text{given exp.} &= (a+b)^2 + (a-b)^2 / (a^2+b^2), \quad \text{where } a = 856, b = 167 \\ &= 2(a^2+b^2) / (a^2+b^2) = 2 \end{aligned}$$

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**Q 10 - If in a examination condition of marks is that for the right answer student gets 3 marks but reduce 2 marks for every wrong answer . if 30 questions attempted and 40 marks gets by the student. Find out the number of question correctly done by the student.**

A - 19

**B - 20**

C - 21

D - 22

**Answer : B**

**Explanation**

Let correctly attempted questions be  $x$ . Then ,  
 $3x - 2(30 - x) = 40 \Rightarrow 5x = 100 \Rightarrow x = 20$ .  
Hence, 20 question correctly done by the student.

Hide Answer