

Simplification questions for Railway Group D Exam Set-4 PDF

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Instructions

For the following questions answer them individually

Question 1

4% of 400 - 2% of 800 = ?

- **A** 0

- D 16

Answer: A

Explanation:

4% of 400 =
$$^{4}_{100} \times 400$$
 = 16

2% of 800 =
$$\begin{smallmatrix}2\\100\end{smallmatrix}$$
 \times 800 = 16

16 - 16 = 0

Question 2

$$2 \\ 2+\sqrt{2} = ?$$





C
$$2 - \sqrt{2}$$

D $2\sqrt{2}$

Answer: C

Explanation:

(a+b)(a-b) =
$$a^2 - b^2$$

Likewise
$$(\sqrt{2}+1)(\sqrt{2}-1)=2-1=1$$

ie.
$$\sqrt{2}-1=\sqrt{2}+1$$

So, the option is C

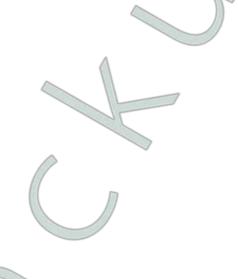
Question 3

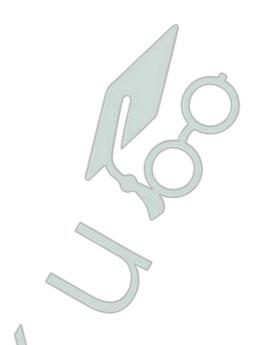
$$\sqrt{6400}$$
 = ?

- 40
- 80
- 60
- None of these

Answer: B

Explanation:
$$\sqrt{6400} = \sqrt{80 \times 80} = 80$$





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Question 4

 $0.5 \div 12 + 0.25 \times 0.05$ = ?

- **A** 0.0525
- **B** 0.7
- C 0.00196
- **D** None of these

Answer: A

Explanation:

$$.5 \div 12 = .04$$

Hence, (a) is the answer.

Question 5

The simplest form of ${}^{391}_{667}$ is

- **A** $\begin{array}{cc} 23 \\ 31 \end{array}$
- **D** 19
- 15
- D 17

Answer: D

Explanation:

 $391 \quad 17 \times 23 \quad 17 \\
667 = 29 \times 23 = 29$

Question 6

25 divided by $\overset{1}{5}$

- **A** $\begin{array}{cc} 1 \\ 125 \end{array}$
- **B** 5
- **C** 25
- **D** 125

Answer: D

Explanation:

The given question can be written as,

25 x (1/5) or 25 x 5 which is equal to 125

Hence, option D is the correct answer.

Question 7

$$4 + (1/6)[-10 \times (25 - 13 - 3) \div (-5)] = ?$$

- Α 8

- 7

Answer: D

Explanation:

$$4 + (1/6)[-10 \times (25 - 13 - 3) \div (-5)]$$

$$4 + (1/6)[-10 \times (9) \div (-5)]$$

- 4 + (1/6)[18]
- 4 + 3 = 7

Hence, option D is the correct answer.

Question 8

$$\frac{3}{5} + \frac{3}{7} = ?$$

- 9 35
- $1 \stackrel{1}{\scriptstyle 35}$
- $\begin{array}{c} 6 \\ 35 \end{array}$

Answer: C

Explanation:

$$\frac{3}{5} + \frac{3}{7}$$

LCM of 7 and 5 is 35 So the equation can be written as,

$$= \frac{36}{35} = 1\frac{1}{35}$$

Hence, option C is the correct answer.

58% of 350 is

- **A** 217
- 203
- 210

Explanation:

The given equation can be written as,

Hence, option B is the correct answer.



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Question 10

Select the option that can replace the question mark (?) in the following equation.

$$2+5 \div [5+8 \div (1+\frac{1}{3})-1] = ?$$

- A 1
- B 2
- **c** $\frac{3}{2}$
- **D** 2

Answer: B

Explanation:

$$= 2 + 5 \div [5 + 8 \div (1 + \frac{1}{3}) - 1]$$

$$=2+5 \div [5+8 \div (\overset{4}{3})-1]$$

$$=2+5\div[5+8 imesrac{3}{4}-1]$$

$$= 2 + 5 \div 10$$

Hence, option B is the correct answer.

Question 11

The value of $122+345-3\div1116\times372$ is :

- **A** 466
- **B** 469
- **C** 446
- **D** 460

Answer: A

Explanation:

Using BODMAS rule we can write the equation as,

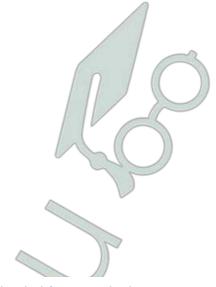
$$467 - \overset{1}{_{372}} \times 372$$

$$467 - 1 = 466$$

Hence, option A is the correct answer.

Question 12

$$8 \times \{5 - (-2) \times (-3)\} = ?$$



- 8
- -168
- С 88
- -8

Answer: D

Explanation:

By using BODMAS rule the given equation can be written as,

$$8 \times (5 - 6) = -8$$

Hence, option D is the correct answer.

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Question 13

18% of 60 is 54% of

- 40
- 30
- 20
- 180 D

Answer: C

Explanation:

The equation can be written as, 18% of 60 = 54% of x 54/5 = 0.54x

x = 20

Hence, option C is the correct answer.

Question 14

Find the value of the given expression.

$$6 - 36 \times 3 \div 6 + 5 = ?$$

- 7
- -7

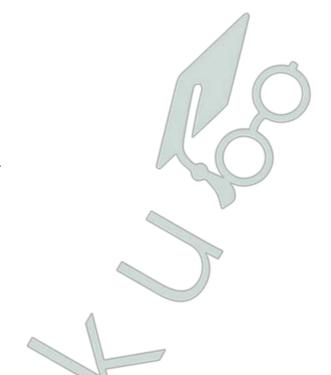
Answer: C

Explanation:

Using BODMAS rule,

- $= 6 36 \times (3/6) + 5$
- = 6 18 + 5 = -7

Hence, option C is the correct answer.



Question 15

Solve the following:

$$(-6)[40 \div {7 - (-3)}] = ?$$

- **A** -24
- **B** -60
- **C** 60
- **D** 24

Answer: A

Explanation:

$$(-6)[40 \div \{7 - (-3)\}]$$

= $(-6)[40 \div \{10\}]$

$$=-6\times4$$

=-24

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