



## 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
- B 1
- C 8
- D 16

Answer: A

Explanation:

$$4\% \text{ of } 400 = \frac{4}{100} \times 400 = 16$$

$$2\% \text{ of } 800 = \frac{2}{100} \times 800 = 16$$

$$16 - 16 = 0$$

#### Question 2

$2 + \sqrt{2} = ?$

- A  $2 + \sqrt{2}$
- B  $\sqrt{2}$
- C  $2 - \sqrt{2}$
- D  $2\sqrt{2}$

Answer: C

Explanation:

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

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

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

So, the option is C

#### Question 3

$\sqrt{6400} = ?$

- A 40
- B 80
- C 60
- D 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:**

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

$$.25 \times .05 = .0125$$

$$.04 + .0125 = .0525$$

Hence, (a) is the answer.

### Question 5

The simplest form of  $\frac{391}{667}$  is

- A  $\frac{23}{31}$
- B  $\frac{19}{23}$
- C  $\frac{15}{19}$
- D  $\frac{17}{29}$

**Answer: D**

**Explanation:**

$$\frac{391}{667} = \frac{17 \times 23}{29 \times 23} = \frac{17}{29}$$

### Question 6

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

- A  $\frac{1}{125}$
- B 5
- C 25
- D 125

**Answer: D**

**Explanation:**

The given question can be written as,

$$25 \times (1/5) \text{ or } 25 \times 5 \text{ which is equal to } 125$$

Hence, option D is the correct answer.

Question 7

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

- A 8
- B 9
- C 6
- D 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

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

- A  $\frac{9}{35}$
- B  $\frac{6}{12}$
- C  $1\frac{1}{35}$
- D  $\frac{6}{35}$

Answer: C

Explanation:

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

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

$$= \frac{21+15}{35}$$

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

Hence, option C is the correct answer.

Question 9

58% of 350 is:

- A 217
- B 203
- C 210
- D 196

**Answer: B**

**Explanation:**

The given equation can be written as,

$$0.58 \times 350 = 203$$

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  $\frac{1}{2}$

B  $\frac{5}{2}$

C  $\frac{3}{2}$

D 2

**Answer: B**

**Explanation:**

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

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

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

$$= 2 + 5 \div 10$$

$$= \frac{5}{2}$$

Hence, option B is the correct answer.

**Question 11**

The value of  $122 + 345 - 3 \div 1116 \times 372$  is :

A 466

B 469

C 446

D 460

**Answer: A**

**Explanation:**

Using BODMAS rule we can write the equation as,

$$467 - \frac{1}{372} \times 372$$

$$467 - 1 = 466$$

Hence, option A is the correct answer.

**Question 12**

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

- A 8
- B -168
- C 88
- D -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 .....

- A 40
- B 30
- C 20
- D 180

**Answer: C**

**Explanation:**

The equation can be written as,

$$18\% \text{ of } 60 = 54\% \text{ of } x$$

$$54/5 = 0.54x$$

$$x = 20$$

Hence, option C is the correct answer.

**Question 14**

Find the value of the given expression.

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

- A 7
- B  $\frac{-42}{11}$
- C -7
- D  $\frac{42}{11}$

**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:

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

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

$$= -6 \times 4$$

$$= -24$$

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