

APTITUDE - DECIMALS & FRACTIONS SOLVED EXAMPLES

Advertisements

Q 1 - Which is the following is fraction for 0.36?

A - 9/25

B - 51/25

C - 3/400

D - 2081/250

Answer - A

Explanation

$$0.36 = 36/100 = 9/25$$

Q 2 - Which is the following is fraction for 2.04?

A - 9/25

B - 51/25

C - 3/400

D - 2081/250

Answer - B

Explanation

$$2.04 = 204/100 = 51/25$$

Q 3 - Which is the following is fraction for .0075?

A - 9/25

B - 51/25

C - 3/400

D - 2081/250

Answer - C

Explanation

$$.0075 = 75/10000 = 3/400$$

Q 4 - Which is the following is fraction for 8.324?

A - 9/25

B - 51/25

C - 3/400

D - 2081/250

Answer - D

Explanation

$$8.324 = 8324/1000 = 2081/250.$$

Q 5 - Which of the following is the correct ascending order for 3/8, 7/12, 2/3, 16/25, 14/15?

A - $3/8 < 7/12 < 2/3 < 16/25 < 14/15$

B - $3/8 < 7/12 < 16/25 < 2/3 < 14/15$

C - $7/12 < 3/8 < 2/3 < 16/25 < 14/15$

D - $2/3 < 7/12 < 3/8 < 16/25 < 14/15$

Answer - B

Explanation

$$3/8 = 0.375, 7/12 = 0.583, 2/3 = 0.666, 16/25 = 0.64 \text{ and } 14/15 = 0.933$$

As $.375 < .583 < .64 < .666 < .933$
 $\therefore 3/8 < 7/12 < 2/3 < 16/25 < 14/15$

Q 6 - Which of the following is the correct descending order for 3/5, 4/7, 8/9, 9/11, 13/15?

A - $3/5 > 4/7 > 8/9 > 9/11 > 13/15$

B - $8/9 > 13/15 > 9/11 > 3/5 > 4/7$

C - $13/15 > 8/9 > 9/11 > 3/5 > 4/7$

D - $13/15 > 8/9 > 3/5 > 9/11 > 4/7$

Answer - B

Explanation

$$3/5 = 0.6, 4/7 = 0.571, 8/9 = 0.888, 9/11 = 0.818, 13/15 = 0.866$$

As $0.888 > 0.866 > 0.818 > 0.6 > 0.571$
 $\therefore 8/9 > 13/15 > 9/11 > 3/5 > 4/7$

Q 7 - Which of the following is the H.C.F. of 1.5, 3 and 0.6?

A - 0.3

B - 0.1

C - 0.2

D - 0.6

Answer - A

Explanation

Make same numbers of decimal places in the given numbers.

Numbers become 1.5, 3.0 and 0.6
Without decimal places, these numbers are 15, 30 and 6.
H.C.F. of 15, 30 and 6 = 3
 \therefore H.C.F. of given numbers = 0.3

Q 8 - Which of the following is the L.C.M. of 1.5, 3 and 0.6?

- A - 3
- B - 2
- C - 1
- D - 6

Answer - A

Explanation

Make same numbers of decimal places in the given numbers.
Numbers become 1.5, 3.0 and 0.6
Without decimal places, these numbers are 15, 30 and 6.
L.C.M. of 15, 30 and 6 = 30
 \therefore L.C.M. of given numbers = 3

Q 9 - $34.64 + 2.9 + 107.035 + .0086 = ?$

- A - 141.5436
- B - 144.5836
- C - 134.5678
- D - 132.8765

Answer - B

Explanation

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We have
 34.64
  2.9
107.035
  .0086
-----
144.5836
-----
 $\therefore 34.64 + 2.9 + 107.035 + .0086 = 144.5836$ 
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Q 10 - $3.004 - 1.2996 = ?$

- A - 1.7044
- B - 0.7262
- C - 1.6723
- D - 0.3456

Answer - A

Explanation

We have

3.004

-1.2996

1.7044

$\therefore 3.004 - 1.2996 = 1.7044$

Q 11 - Which of the following is the result when 6.2958 is subtracted from 10?

A - 3.7042

B - 3.8675

C - 2.8762

D - 3.8762

Answer - A

Explanation

We have

10.0000

- 6.2958

3.7042

$\therefore 10 - 6.2958 = 3.7042$

Q 12 - $1.71 \times 1.3 = ?$

A - 3.213

B - 2.223

C - 1.223

D - 3.213

Answer - B

Explanation

$171 \times 13 = 2223$

Here sum of decimal places = $2 + 1 = 3$

$\therefore 1.71 \times 1.3 = 2.223$

Q 13 - $3.746 \times 11.4 = ?$

A - 42.7044

B - 40.7654

C - 34.8762

D - 42.7862

Answer - A

Explanation

$$\begin{array}{r}
 3746 \\
 \times 114 \\
 \hline
 14984 \\
 3746x \\
 3746xx \\
 \hline
 427044 \\
 \hline
 \end{array}$$

Here sum of decimal places = $3 + 3 = 6$
 $\therefore 3.746 \times 11.4 = 42.7044$

Q 14 - $.5 \times 0.5 \times .005 \times 50 = ?$

A - .00625

B - .0625

C - .625

D - 6.25

Answer - A

Explanation

We have $5 \times 5 \times 5 \times 50 = 6250$
Sum of decimal places = $1 + 2 + 3 = 6$
 $\therefore .5 \times 0.5 \times .005 \times 50 = 0.00625.$

Q 15 - If $172 \times 38 = 6536$, what is 1.72×0.38 ?

A - 65.36

B - 0.06536

C - 0.6536

D - 6.536

Answer - B

Explanation

Sum of decimal places = $2 + 3 = 5$
 $\therefore 1.72 \times 0.38 = 0.06536.$

Q 16 - $0.0182 / 14 = ?$

A - 13

B - 0.013

C - 0.0013

D - 1.3

Answer - C

Explanation

$$182 / 14 = 13$$

Dividend contains 4 places of decimals.

$$\therefore 0.0182 / 14 = 0.0013$$

Q 17 - $40.40 / 0.0008 = ?$.

A - 50.5

B - 505

C - 5050

D - 50500

Answer - D

Explanation

$$40.40 / 0.0008 = (40.40 \times 10000) / (8 \times 10000) = 404000 / 8 = 50500$$

Q 18 - $0.001 / ? = 0.1$

A - 0.1

B - 0.01

C - 0.001

D - 1.0

Answer - B

Explanation

$$\text{Let } 0.001/x = 0.1$$

$$\Rightarrow x = (0.001/0.1) \times (10/10) = .01/1 = .01$$

Q 19 - What is fraction for 0.313131?

A - 3/7

B - 4/9

C - 3/9

D - 31/99

Answer - B

Explanation

$$=0.313131 = 31/99$$

Q 20 - What is fraction for 0.5366666?

A - 61/300

B - 69/550

C - 161/300

D - 8/45

Answer - C

Explanation

$$0.5366666 = (536 - 53)/900 = 483/900 = 161/300.$$

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