Aptitude - Decimals & Fractions Solved Examples

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 and 14/15 = 0.933
As .375 < .583 < .64 <.666 < .933
∴ 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
∴ 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
∴ 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
∴ 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

```
We have
 34.64
  2.9
107.035
   .0086
---------
144.5836
---------
∴ 34.64 + 2.9 + 107.035 + .0086 = 144.5836
```

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
 -------
∴ 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
 -------
∴ 10 - 6.2958 = 3.7042
```

Q 12 - 1.71 x 1.3 = ?

A - 3.213

B - 2.223

C - 1.223

D - 3.213

Answer - B

Explanation

```
  171 x 13 = 2223
  Here sum of decimal places = 2 + 1 = 3
  ∴ 1.71 x 1.3 = 2.223
```

Q 13 - 3.746 x 11.4 = ?

A - 42.7044

B - 40.7654

C - 34.8762

D - 42.7862

Answer - A

Explanation

```
   3746
   x114
   ------
  14984
  3746x
 3746xx
 -------
 427044
 -------
Here sum of decimal places = 3 + 3 = 6
∴ 3.746 x 11.4 = 42.7044
```

Q 14 - .5 x 0.5 x .005 x 50 = ?

A - .00625

B - .0625

C - .625

D - 6.25

Answer - A

Explanation

```
 We have 5 x 5 x 5 x 50 = 6250
 Sum of decimal places = 1 + 2 + 3 = 6
 ∴  .5 x 0.5 x .005 x 50 = 0.00625.
```

Q 15 - If 172 x 38 = 6536, what is 1.72 x 0.38?

A - 65.36

B - 0.06536

C - 0.6536

D - 6.536

Answer - B

Explanation

```
Sum of decimal places = 2 + 3 = 5
∴ 1.72 x 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.
∴ 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 x 10000)/(8 x 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

```
Let 0.001/x = 0.1
=> x = (0.001/0.1)x (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.
```