

OBJECTIVE TYPE QUESTIONS

PAGE: 7.32

Mark the correct alternative in each of the following:

1. $\frac{3}{10}$ is equal to

- (a) 3.1
- (b) 1.3
- (c) 0.3
- (d) 0.03

Solution:

The option (c) is correct answer.

We know that $\frac{3}{10} = 0.3$

Here the denominator is 10, so we have to mark the decimal where 3 is in the tenth place.

2. $\frac{7}{100}$ is equal to

- (a) 7.1
- (b) 7.01
- (c) 0.7
- (d) 0.07

Solution:

The option (d) is correct answer.

We know that $\frac{7}{100} = 0.07$

Here the denominator is 100, so we have to mark the decimal where 7 is in the hundredth place.

3. $\frac{4}{1000}$ is equal to

- (a) 0.004
- (b) 0.04
- (c) 0.4
- (d) 4.001

Solution:

The option (a) is correct answer.

Here the denominator is 1000, so we have to mark the decimal where 4 is in the thousandth place.

4. The value of $\frac{37}{10000}$ is

- (a) 0.0370
- (b) 0.0037
- (c) 0.00037
- (d) 0.000037

Solution:

The option (b) is correct answer.

Here the denominator is 10000, so we have to mark the decimal where 3 is in the thousandth place and 7 is in the ten-thousandth place.

5. The place value of 5 in 0.04532 is

- (a) 5
- (b) $\frac{5}{100}$

- (c) $5/1000$
(d) $5/10000$

Solution:

The option (c) is correct answer.

We know that 5 is in the thousandth place.

So we get $0.04532 = 4/100 + 5/1000 + 3/10000 + 2/100000$

6. The value of $231/1000$ is

- (a) 0.231
(b) 2.31
(c) 23.1
(d) 0.0231

Solution:

The option (a) is correct answer.

It can be written as

$$231/1000 = (200+30+1)/1000 = 200/1000 + 30/1000 + 1/1000 = 2/10 + 3/100 + 1/1000$$

Here we have 2 tenths, 3 hundredths and 1 thousandth.

Hence, the value of $231/1000$ is 0.231.

7. The value of $3 \frac{5}{1000}$ is

- (a) 3.5
(b) 3.05
(c) 3.005
(d) 3.0005

Solution:

The option (c) is correct answer.

It can be written as

$$3 \frac{5}{1000} = 3 + 5/1000 = 3 + 0.005 = 3.005$$

8. The value of $3/25$ is

- (a) 1.2
(b) 0.12
(c) 0.012
(d) None of these

Solution:

The option (b) is correct answer.

It can be written as

$$3/25 = (3 \times 4) / (25 \times 4) = 12/100 = 0.12$$

9. The value of $2 \frac{1}{25}$ is

- (a) 2.4
(b) 2.25
(c) 2.04
(d) 2.40

Solution:

The option (c) is correct answer.

It can be written as

$$2 \frac{1}{25} = 2 + \frac{1}{25} = 2 + \frac{(1 \times 4)}{(25 \times 4)} = 2 + \frac{4}{100} = 2 + 0.04 = 2.04$$

10. $4 \frac{7}{8}$ is equal to

(a) 4.78

(b) 4.87

(c) 4.875

(d) None of these

Solution:

The option (c) is correct answer.

It can be written as

$$4 \frac{7}{8} = 4 + \frac{7}{8} = 4 + \frac{(7 \times 125)}{(8 \times 125)}$$

On further calculation

$$4 \frac{7}{8} = 4 + \frac{875}{1000} = 4 + 0.875 = 4.875$$

11. $2 + \frac{3}{10} + \frac{5}{100}$ is equal to

(a) 2.305

(b) 2.3

(c) 2.35

(d) 0.235

Solution:

The option (c) is correct answer.

We know that $\frac{3}{10} = 0.3$ having denominator as 10, so we need to mark the decimal where 3 is in the tenth place

$\frac{5}{100} = 0.05$ having denominator as 100, so we need to mark the decimal where 5 is in the hundredth place

It can be written as,

$$2 + \frac{3}{10} + \frac{5}{100} = 2 + 0.3 + 0.05 = 2.35$$

12. $\frac{3}{100} + \frac{5}{10000}$ is equal to

(a) 0.35

(b) 0.305

(c) 0.0305

(d) 0.3005

Solution:

The option (d) is correct answer.

We know that $\frac{3}{100} = 0.03$ having denominator 100, so we mark the decimal where 3 is in the hundredth place

$\frac{5}{10000} = 0.0005$ having denominator 10000, so we mark the decimal where 5 is in the ten thousandth place

It can be written as,

$$\frac{3}{100} + \frac{5}{10000} = 0.03 + 0.0005 = 0.0305$$

13. 1 cm is equal is

(a) 0.1 m

(b) 0.01 m

(c) 0.10 m

(d) 0.001 m

Solution:

The option (b) is correct answer.

$$100 \text{ cm} = 1 \text{ m}$$

So we get,

$$1 \text{ cm} = 1/100 \text{ m} = 0.01 \text{ m}$$

14. 1 m is equal to

(a) 0.1 km

(b) 0.01 km

(c) 0.001 km

(d) 0.0001 km

Solution:

The option (c) is correct answer.

$$1000 \text{ m} = 1 \text{ km}$$

So we get,

$$1 \text{ m} = 1/1000 \text{ m} = 0.001 \text{ km}$$

15. 2 kg 5 gm is equal to

(a) 2.5 kg

(b) 2.05 kg

(c) 2.005 kg

(d) 2.6 kg

Solution:

The option (c) is correct answer.

$$1000 \text{ g} = 1 \text{ kg}$$

$$\text{So we get } 1 \text{ g} = 1/1000 \text{ kg} = 0.001 \text{ kg}$$

$$\text{The same way } 5 \text{ g} = 5/1000 \text{ kg} = 0.005 \text{ kg}$$

$$\text{Hence, } 2 \text{ kg } 5 \text{ gm} = 2 \text{ kg} + 0.005 \text{ kg} = 2.005 \text{ kg}$$

16. 15 litres and 15 ml is equal to

(a) 15.15 litres

(b) 15.150 litres

(c) 15.0015 litres

(d) 15.015 litres

Solution:

The option (d) is correct answer.

$$1000 \text{ ml} = 1 \text{ litre}$$

$$\text{So we get } 1 \text{ ml} = 1/1000 = 0.001 \text{ litre}$$

$$\text{The same way } 15 \text{ ml} = 15/1000 = 0.015 \text{ litre}$$

$$\text{Hence, } 15 \text{ litre and } 15 \text{ ml} = 15 \text{ litre} + 0.015 \text{ litre} = 15.015 \text{ litres}$$

17. Which of the following are like decimals?

(a) 5.5, 5.05, 5.005, 5.50

(b) 5.5, 0.55, 5.55, 5.555

(c) 5.5, 6.6, 7.7, 8.8

(d) 0.5, 0.56, 0.567, 0.5678

Solution:

The option (c) is correct answer.

5.5, 6.6, 7.7, 8.8 are like decimals having same number of decimals.

18. The value of $0.5 + 0.005 + 5.05$ is

- (a) 5.55
- (b) 5.555
- (c) 5.055
- (d) 5.550

Solution:

The option (b) is correct answer.

$$0.5 + 0.005 + 5.05 = 5.555$$

19. $0.35 - 0.035$ is equal to

- (a) 0.3
- (b) 0.349
- (c) 0.315
- (d) 0.353

Solution:

The option (c) is correct answer.

$$0.35 - 0.035 = 0.315$$

20. $2.5 + 3.05 - 4.005$ is equal to

- (a) 1.545
- (b) 1.455
- (c) 1.554
- (d) 0.545

Solution:

The option (a) is correct answer.

$$2.5 + 3.05 - 4.005 = 5.55 - 4.005 = 1.545$$

21. Which is greater among 2.3, 2.03, 2.33, 2.05?

- (a) 2.3
- (b) 2.03
- (c) 2.33
- (d) 2.05

Solution:

The option (c) is correct answer.

We know that the whole parts of all the above numbers are equal.

So by comparing the tenth parts, two of the decimals have a tenth part 0 and two have a tenth part 3.

Now by leaving the decimals which have a tenth part 0, 2.3 and 2.33.

By comparing them, 2.33 is greater than 2.3, where, 2.3 has no hundredth part, while 2.33, the hundredth part is 3.