

Class: 6
Subject: Mathematics
Topic: Decimals
No. of Questions: 20
Duration: 60 Min
Maximum Marks: 60

Q1. The following are the figures in the bank account of M/s LMN Internationals

Month	Sales (in Rs.)	Expenditures (in Rs.)
February	11500.55	12300
March	14200.50	11450.20
April	22500.65	13680.55
May	10900	8005.45

How much money is left in the account of the firm in the end of May?

- A. Rs. 13665.50
- B. Rs. 15685.50
- C. Rs. 27346.05
- D. Rs. 23665.50

Right Answer Explanation: A
Here, total sales of M/s LMN Internationals:

= Total sales in the month of (February + March + April + May)

= Rs.11500.55 + Rs.14200.50 + Rs.22500.65 + Rs.10900

= Rs.59101.70

Now, total expenditures of M/s LMN Internationals:

= Total expenditure in the month of (February + March + April + May)

= Rs.12300 + Rs.11450.20 + Rs.13680.55 + Rs.8005.45

= Rs.45436.20

Therefore, money left in the account of the firm in the end of

May = Total sales - Total expenditure

$$= \text{Rs.}59101.70 - \text{Rs.}45436.20$$

$$= \text{Rs.}13665.50$$

Thus, this is the correct option.

Q2. Find the solution of: $0.0004 + 2900.45 + 32452.45 - 220.1005$.

- A. 34332.7999
- B. 32232.3499
- C. 35132.7999
- D. 28312.7999

Right Answer Explanation: C

Here, we need to find the sum of:

$$0.0004 + 2900.45 + 32452.45 \text{ and then subtract it by } 220.1005.$$

$$\text{Therefore, adding } 0.0004 + 2900.45 + 32452.45 = 35352.9004.$$

Now, subtracting 220.1005 from 35352.9004

$$= 35352.9004 - 220.1005$$

$$= 35132.7999$$

Thus, this is the correct option.

Q3. Mr. Sharma gave a total amount of Rs. 5,00,000 as advance to the hospital. From the advance, Rs. 2,49,000.65 was spent on operation, Rs. 1,25,456.40 was spent on medicines and Rs. 24,000 on doctor's fee. How much money should be returned to Mr. Sharma by the hospital?

- A. Rs. 1,25,542.95
- B. Rs. 1,01,542.95
- C. Rs. 2,26,999.35
- D. Rs. 1,56,324.90

Right Answer Explanation: B

$$\text{Total amount as advance} = \text{Rs.}5,00,000$$

$$\text{Amount spent on operation} = \text{Rs.}2,49,000.65$$

Amount spent on medicines = Rs.1,25,456.40

Amount spent on doctor's fee = Rs.24,000

Thus, total expenditure = Amount spent on (operation + medicines + doctor's fee)

$$= \text{Rs.}2,49,000.65 + \text{Rs.}1,25,456.40 + \text{Rs.}24,000$$

$$= \text{Rs.}398457.05$$

Thus, amount to be returned by the hospital

= Total advance - Total expenditure

$$= \text{Rs.}5,00,000 - \text{Rs.}3,98,457.05$$

$$= \text{Rs.}101542.95$$

Thus, this is the correct option.

Q4. Which of the following decimals is bigger than 33.333?

- A. 33.033
- B. 33.303
- C. 33.334
- D. 33.332

Right Answer Explanation: C
33.333 is given number

3 tens 3 ones 3 tenths 3 hundredths 3 thousandths

33.334 is greater than 33.333

as $4 > 3$ and 4 is at thousandth place.

$$\therefore 33.334 > 33.333$$

Q5. Arrange the following in ascending order.

2.2, 2.023, 2.0226, 22.1, 20.42

- A. 2.023 , 2.0226 , 2.2 , 20.42 , 22.1
- B. 2.0226 , 22.1 , 2.023 , 20.42 , 2.2

- C. 2.0226 , 2.2 ,2.023, 20.42 , 22.1
- D. 2.0226 , 2.023 , 2.2 , 20.42 , 22.1

Solution: D

We have to arrange them from the smallest to the greatest number. We arrange them as follows (using the idea of place value and comparing their digits at different places);

2.0226, 2.023, 2.2, 20.42, 22.1

(Note: Using the < sign, these numbers can also be written as $2.0226 < 2.023 < 2.2 < 20.42 < 22.1$.)

Q6. 0.7499 lies between

- (A) 0.7 and 0.74
- (B) 0.75 and 0.79
- (C) 0.749 and 0.75
- (D) 0.74992 and 0.75

Ans. (C)

Write all the numbers up to 4 decimal places and compare.

Q7. 0.023 lies between

- (A) 0.2 and 0.3
- (B) 0.02 and 0.03
- (C) 0.03 and 0.029
- (D) 0.026 and 0.024

Ans. (B)

Write all decimals up to 3 decimal places and compare the corresponding digits.

Q8. $0.07 + 0.008$ is equal to

- (A) 0.15
- (B) 0.015
- (C) 0.078
- (D) 0.78

Ans. C (Straight addition according to place value)

Q9. Which of the following decimals is the greatest?

- (A) 0.182

(B)0.0925

(C)0.29

(D)0.038

Ans. (C) tenth place is highest for .29 as compared to other decimals.

Q10. Which of the following decimals is the smallest?

(A)0.27

(B)1.5

(C)0.082

(D)0.103

Ans. (C) (It has got least ones and tenth place value)

Q11. 13.572 correct to the tenths place is

(A)10

(B)13.57

(C)14.5

(D)13.6

Ans. D (7 is greater than 5 so digits before that will be increased by 1 i.e. 13.572 will be rounded off as 13.6)

Q12. $15.8 - 6.73$ is equal to

(A)8.07

(B)9.07

(C)9.13

(D)9.25

Ans. B ($15.80 - 6.73$. Go place by place / or use column method.)

Q13. Trisha got Rs. 250 from her mother and Rs. 300 from her father. From that amount, she bought a book for Rs. 495.55. How much money is left with her?

A. Rs. 54.45

B. Rs. 94.45

C. Rs. 62.05

D. Rs. 29.45

Right Answer Explanation: A

Money Trisha got from her mother = Rs.250

Money Trisha got from her father = Rs.300

Therefore, total money Trisha got = Rs.250 + Rs.300 = Rs.550

Now, she bought a book for Rs.495.55.

Therefore, money left with Trisha = Total money Trisha got - Cost of book
= Rs.550 - Rs.495.55

$$= \text{Rs.}54.45$$

Thus, Trisha is left with Rs.54.45.

Q14. Solve: $200.453 + 967.330 + 43.80 - 25.223$.

- A. 1245.90
- B. 1186.36
- C. 985.907
- D. 1321.531

Right Answer Explanation: B

Here, we need to add

$200.453 + 967.330 + 43.80$ and then subtract 25.223 from the total.

Adding $200.453 + 967.330 + 43.80$, we get

$$= 1211.583$$

Now subtracting 25.223 from 1211.583 , we get.

$$= 1211.583 - 25.223$$

$$= 1186.36$$

Q15. Reena travelled 104 km 50 meter by car, 210 km 500 meter by bus and 95 km 40 meter by train to reach her destination. How much did she travel in total?

- A. 409.590 km
- B. 410.040 km
- C. 395.440 km
- D. 379.590 km

Right Answer Explanation: A

Here, distance travelled by car = 104 km 50 meter = 104.050 km (1 km = 1000 meter)

Distance travelled by bus = 210 km 500 meter = 210.500 km (1 km = 1000 meter)

Distance travelled by train = 95 km 40 meter = 95.040 km (1 km = 1000 km)

Therefore, total distance travelled = Distance travelled by (car + bus + train)

$$= 104.050 + 210.500 + 95.040$$

$$= 409.590 \text{ km}$$

Q16. On their birthday, Aneesh got Rs. 1015.50 as cash. His brother Aryan got cash of Rs. 814.85. How much total cash did they both get?

- A. Rs. 2830.35
- B. Rs. 1830.35
- C. Rs. 1825.35
- D. Rs. 1730.35

Right Answer Explanation: B

Here, cash Aneesh got = Rs.1015.50

Cash Aryan got = Rs.814.85

Total cash they both get = Cash of Aneesh + Cash of Aryan
= Rs.1015.50 + Rs.814.85
= Rs.1830.35

Thus, this is the correct option

Q17. The following are the details of pay of Mrs. Sharma

August	September	October	November
Rs.13350.50	Rs.13100.75	Rs.12910.35	Rs.14100.25

- (a) What is the total pay she got in these four months?
- (b) What is her average pay?

- A. Rs. 40551.50, Rs. 10137.88
- B. Rs. 53461.85, Rs. 13365.47
- C. Rs. 53461.85, Rs. 17820.62
- D. Rs. 57241.85, Rs. 14310.47

Right Answer Explanation: B

Here, pay in August = Rs.13350.50

Pay in September = Rs.13100.75

Pay in October = Rs.12910.35

Pay in November = Rs.14100.25

Total pay = Pay in the month of (August + September + October + November)
= Rs.13350.50 + Rs.13100.75 + Rs.12910.35 + Rs.14100.25
= Rs.53461.85

$$\text{Now, average pay} = \frac{\text{Total pay in four months}}{4} = \frac{\text{Rs.53461.85}}{4} = \text{Rs.13365.47}$$

Thus, this is the correct option.

Q18. How is 38.2 written in the place value table?

- A. 3 ones, 8 tens and 2 ones
- B. 3 tens, 8 ones and 2 ones
- C. 3 ones, 8 tens and 2 one-tenths
- D. 3 tens, 8 ones and 2 one-tenths

Right Answer Explanation: D

38.2 can be written in place value tables as 3 tens, 8 ones and 2 one-tenths.

Q19. 87 mm expressed in cm will be

- A. 87 cm
- B. 0.87 cm
- C. 8.7 cm
- D. 87.7 cm

Right Answer Explanation: C

We know that

1 centimeter (cm) = 10 millimeter (mm)

$$\therefore 10 \text{ mm} = 1 \text{ cm}$$

$$\text{or } 1 \text{ mm} = \frac{1}{10} \text{ cm}$$

$$\begin{aligned} 87 \text{ mm} &= \frac{1}{10} \times 87 \text{ cm} \\ &= \frac{87}{10} \text{ cm} \\ &= 8.7 \text{ cm} \end{aligned}$$

Q20. Which of the following fractions is the same as the decimal 3.24?

A. $3\frac{12}{50}$

B. $12\frac{3}{50}$

C. $26\frac{3}{50}$

D. $32\frac{4}{50}$

Right Answer Explanation: A

$$3.24 = \frac{324}{100} = \frac{81}{25} = 3\frac{6}{25}$$

Or $3\frac{6 \times 2}{25 \times 2} = 3\frac{12}{50}$