



MATHS

BOOKS - HT Olympiad Previous Year Paper

DECIMALS

Mathematical Reasoning

1. If 0.090909 is approximately equal to $\frac{1}{11}$ then the approximate value of 0.454545 is _____.

A. $\frac{4}{11}$

B. $\frac{5}{11}$

C. $\frac{45}{11}$

D. $\frac{6}{11}$

Answer: B



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2. Which of the following decimal numbers are arranged in descending order?

A. 5.6, 5.506, 5.06, 0.506

B. 5.06, 0.506, 5.506, 5.6

C. 5.6, 5.06, 0.506, 5.506

D. 0.506, 5.06, 5.506, 5.6

Answer: A



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3. Which of the following expressions is incorrect?

A. $0.6 > 0.06$

B. $0.66 \neq \frac{5}{9}$

C. $455 > \frac{11}{25}$

D. $\frac{1}{6} > 0.17$

Answer: D



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4. The cost of 94 blankets is Rs. 615004.40. What is the cost of 1 such blanket?

A. Rs. 6442.85

B. Rs. 6539.05

C. Rs. 6542.60

D. Rs. 6556.65

Answer: C





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5. Add 395.6 to 48.07 and subtract it from the sum of 510.05 and 115.15.

A. 179.25

B. 181.53

C. 185.69

D. 182.46

Answer: B



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6. What should be subtracted from 91202.57 to get the greatest 4-digit even number?

A. 81203.57

B. 82103.75

C. 81203.43

D. 81204.57

Answer: D



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7. The value of

$$0.0001289 - 0.0000000274 \times 1293 + 0.0000419032$$

is _____.

A. 0.0135375

B. 0.000153357

C. 135375000

D. 0.000135375

Answer: D



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8. By how much is the sum of 14.28 and 21.219 greater than their difference?

A. 35.499

B. 6.939

C. 20.65

D. 28.56

Answer: D



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9. Which of the following options is correct?

A. 14 tenths 4 thousandths = 0.144

B. 2 tenths 13 hundredths = 0.213

C. 2 tenths 4 hundredths = 0.024

D. 7 tenths 17 hundredths = 0.87

Answer: D



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10. Select the correct option which makes the given expression true.

$$12.5 + 5\frac{3}{8} + 8\frac{1}{8} + 9\frac{4}{5} \square 2.9 + 15 - 6.88 + 11.08$$

A. $<$

B. $>$

C. $=$

D. Can't be determined

Answer: B



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11. The product of two numbers is 0.217. If one of them is 0.35, then the other number is _____.

A. 19.46

B. 0.46

C. 0.62

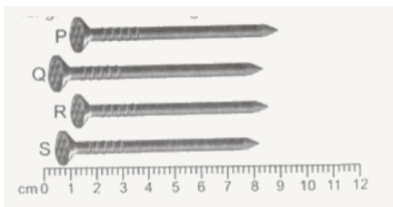
D. 0.56

Answer: C

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12. The given figure shows 4 nails of different length.

What is the length of the shortest nail ?



A. 7.8 cm

B. 8.2 cm

C. 7.6 cm

D. 8.1 cm

Answer: C



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13. What is the value of $63.368 + 21.732 - 35.147$

rounded to the nearest hundredths?

A. 49.953

B. 45.7

C. 49.96

D. 49.95

Answer: D



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14. If 0.75 of a number is 1200, then what is $\frac{5}{8}$ of that number?

A. 1000

B. 1060

C. 880

D. 8002

Answer: A



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15. The fractional number corresponding to the number "2 thousands + 4 hundreds + 0 tens + 8 ones + 0 tenths + 3 hundredths + 1 thousandths" is _____.

A. $\frac{2408013}{1000}$

B. $\frac{248031}{1000}$

C. $\frac{2408031}{1000}$

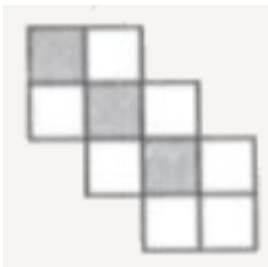
D. $\frac{2480031}{1000}$

Answer: C



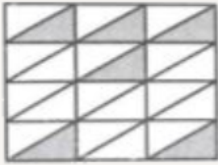
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16. Which of the following figures have least shaded part?

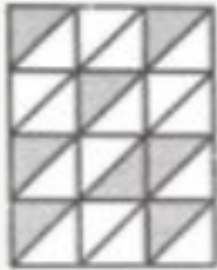




B.



C.



D.

Answer: C



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$$17.2 + (8 \times 0.1) + (6 \times 0.01) + (4 \times 0.001) =$$

A. 0.2864

B. 2.864

C. 28.64

D. 2864

Answer: B



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18. Which of the following shows the unshaded part of the figure given below ?



A. 2.5

B. 0.5

C. 0.6

D. 0.4

Answer: C



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19. Which number is equal to $\left(\frac{0.5}{0.05} - \frac{0.05}{0.5} \right)$?

A. 10.1

B. 1.10

C. 9.9

D. 99.0

Answer: C



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20. The decimal form of $75\frac{491}{1000}$ is

A. 7504.91

B. 7500.491

C. 75.491

D. 75.0491

Answer: C



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Everyday Mathematics

1. Sonika purchased 4 kg 500 g wheat, 5 kg 650 g sugar and 12 kg 600 g rice. The total weight she purchased was _____ .

A. 10.150 kg

B. 22.750 kg

C. 25.350 kg

D. 18.250 kg

Answer: B



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2. Deepak had 17.45 litres of water. He gave 8.30 litres to his neighbour. The quantity of water left with him is _____ .

A. 9.30 litres

B. 5.45 litres

C. 9.15 litres

D. 5.82 litres

Answer: C



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3. Namita travels 20 km 50 m every day. Out of this she travels 10 km 200 m by bus and the rest by auto.

How much distance does she travel by auto?

A. 9.850 km

B. 8.850 km

C. 9.750 km

D. 7.850 km

Answer: A



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4. Prerna had Rs. 5000. She bought 2 boxes of chocolates for Rs. 52.98 each, 3 packets of chips for Rs. 12.98 each and 2 books for Rs. 300.05 each. How much money left with her?

A. Rs. 4255

B. Rs. 4750

C. Rs. 4000

D. Rs. 3875

Answer: A



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5. Prem went to a craft fair where he spent a total of Rs. 16.00. He spent Rs. 6.00 on admission and went to 8 tables. He spent the same amount of money (Rs. m) at each table. The given expression can be used to find how much money he spent at each table.

$$16 = 6 + 8m$$

How much money did Prem spend at each table ?

A. Rs. 0.50

B. Rs. 0.80

C. Rs. 1.25

D. Rs. 2.00

Answer: C



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Achievers Section Hots

1. Fill in the blanks.

(i) 53 tenths = 5 ones + P tenths.

(ii) 14.987 rounded off to first decimal place is Q

(iii) The fraction $14\frac{2}{10}$ is equal to R.

A.

<i>P</i>	<i>Q</i>	<i>R</i>
3	14	14.2

B.

<i>P</i>	<i>Q</i>	<i>R</i>
3	15	14.2

C.

<i>P</i>	<i>Q</i>	<i>R</i>
5	15	14.02

D.

<i>P</i>	<i>Q</i>	<i>R</i>
5	14	14.02

Answer: B



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2. State 'T' for true and 'F' for false.

(i) In 16.532, the digit 3 is in thousandths place

(ii) Every fraction or a decimal number can be represented on a number line.

(iii) The lowest form of 0.35 is $\frac{7}{20}$

A. (i) (ii) (iii)
T T T

B. (i) (ii) (iii)
T F F

C. (i) (ii) (iii)
F T T

D. (i) (ii) (iii)
F T F

Answer: C



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3. Match the following.

	Column I		Column II
(i)	$715 + 12.59 + 685.35 =$	(P)	417.16
(ii)	$518 - (216.80 - 115.96) =$	(Q)	213.07
(iii)	$4.090 + 0.050 + 6.500 =$	(R)	1412.94
(iv)	$36.050 + 198.05 - 21.03 =$	(S)	10.640

A.

$$(i) \rightarrow (Q), (ii) \rightarrow (R), (iii) \rightarrow (S), (iv) \rightarrow (P)$$

B.

$$(i) \rightarrow (R), (ii) \rightarrow (P), (iii) \rightarrow (S), (iv) \rightarrow (Q)$$

C.

$$(i) \rightarrow (R), (ii) \rightarrow (S), (iii) \rightarrow (P), (iv) \rightarrow (Q)$$

D.

$(i) \rightarrow (Q), (ii) \rightarrow (S), (iii) \rightarrow (P), (iv) \rightarrow (R)$

Answer: B



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4. Select the incorrect statement.

A. Tina had 1556 cm long cloth. She cut 13 m 50 cm from it. The length of cloth left with her is 2.06 m.

B. Neetu bought 500 g potatoes, 250 g capsicums, 700 g onions, 500 g tomatoes, 100 g gingers and 300 g raddish. The total weight of the vegetables she bought is 2.350 kg.

C. Rita got Rs. 500 and spent Rs. 117.35 on stationery items and Rs. 50.75 on eatables. The amount left with Rita is Rs. 331.09.

D. Yashika has to cover a distance of 20 km 50 m. She walked 1 km and went by bus for 15 km and hired an auto for rest of the distance. The distance she covered by auto is 4.05 km.

Answer: C



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5. Study the following statements carefully and select the correct option.

Statement-1: Place value of a digit increases by 10 times as the digit moves from the right to the left place by place.

Statement-2: Any number of zeroes placed to the right of the decimal part of a number does not change the value of the number.

A. Both Statement-1 and Statement-2 are true.

B. Statement-1 is true but Statement-2 is false.

C. Statement-1 is false but Statement-2 is true.

D. Both Statement-1 and Statement-2 are false.

Answer: A



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