

# Class 5 Decimals Worksheet



## Advanced Decimals - Class 5

In Class 5, we learn more advanced operations with decimals including **multiplication, division, and working with hundredths.**

### Key Concepts:

- **Place Value:** Ones . Tenths Hundredths
- **Multiplying Decimals:** Multiply and count decimal places
- **Dividing Decimals:** Move decimal point in both divisor and dividend
- **Converting:** Fractions to decimals and vice versa
- **Example:**  $3.45 = 3 \text{ ones} + 4 \text{ tenths} + 5 \text{ hundredths}$



### Sample Problem with Visual

**Problem:** Multiply  $2.5 \times 3$

$2.5 \times 3 =$  Adding 2.5 three times

First: 2.5



$2 + 0.5$

Second: 2.5



$2 + 0.5$

Third: 2.5



$2 + 0.5$

**Total = 6 wholes + 1.5 = 7.5**

$2.5 \times 3 = 7.5$

### Method:

Step 1:  $25 \times 3 = 75$

Step 2: Count decimal places (1)

Step 3: Place decimal: **7.5**

## Part A: Warm-up (Easy) - 8 Questions

Q1. Convert the fraction to decimal:  $3/10 =$  \_\_\_\_\_

3 out of 10 parts shaded



$3/10 = 0.?$

Q2. Write in decimal form: Forty-two point sixty-five = \_\_\_\_\_

Q3. Look at the decimal and identify the place value:

In 5.67, what is the place value of 7?

Q4. True or False:  $0.50 = 0.5$

☒ True

☐ False

Q5. Round 4.83 to the nearest tenth: \_\_\_\_\_

Q6. Add:  $3.45 + 2.30 =$  \_\_\_\_\_

Q7. Subtract:  $8.75 - 3.50 =$  \_\_\_\_\_

Q8. Which is greater? Circle the answer: **6.78** or **6.87**

## Part B: Practice (Medium) - 10 Questions

Q9. Multiply:  $4.5 \times 6 =$  \_\_\_\_\_

Multiplying Decimals

<div style="border: 1px solid blue; padding: 5px; display: inline-block;"><math>4.5</math> <math>\times 6</math></div>	=	<div style="border: 1px solid red; padding: 5px; display: inline-block; width: 60px; height: 40px; text-align: center; vertical-align: middle; color: red; font-size: 24px;">?</div>
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**Q10.** Divide:  $12.6 \div 3 =$  \_\_\_\_\_

Divide 12.6 into 3 equal groups

$$12.6 \div 3 =$$

?

?

?

Each group gets the same amount

**Q11.** A notebook costs ₹45.75 and a pen costs ₹12.50. Ravi buys 2 notebooks and 3 pens. What is the total cost?

**Q12.** Convert to fraction in simplest form:  $0.25 =$  \_\_\_\_\_

**Q13.** True or False:  $3.2 \times 10 = 32$

☒ True

☐ False

**Q14.** Add three decimals:  $5.25 + 3.80 + 2.45 =$  \_\_\_\_\_

**Q15.** Priya ran 3.75 km on Monday, 4.50 km on Wednesday, and 5.25 km on Friday. What is the total distance she ran?

**Q16.** Arrange in descending order: 8.45, 8.54, 8.04, 8.40

**Q17.** Fill in the blank:  $7.8 \div 2 = \underline{\hspace{2cm}}$

**Q18.** Match the following:

**Column A**

a) 0.75

b) 0.50

c) 0.25

d) 0.20

**Column B**

i)  $\frac{1}{4}$

ii)  $\frac{1}{5}$

iii)  $\frac{3}{4}$

iv)  $\frac{1}{2}$

## Part C: Challenge (Hard) - 6 Questions

**Q19.** A shopkeeper bought 12.5 kg of rice at ₹48.50 per kg. How much did he pay in total?

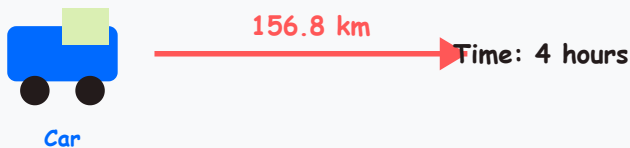
Rice Purchase Problem

Quantity: 12.5 kg	×	Price per kg: ₹48.50
Total Cost = ?		

**Q20.** Divide and round to nearest hundredth:  $25.5 \div 4 =$  \_\_\_\_\_

**Q21.** A car travels 156.8 km in 4 hours. What is the average speed per hour?

Car Speed Problem

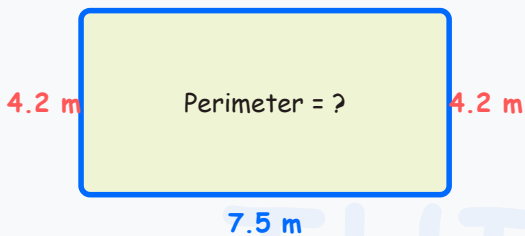


$\text{Speed} = \text{Distance} \div \text{Time}$

**Q22.** Solve:  $(3.5 \times 4) + (2.8 \times 3) = \underline{\hspace{2cm}}$

**Q23.** A rectangle has length 7.5 m and width 4.2 m. Find the perimeter.

Rectangle Perimeter  
7.5 m



Hint: Perimeter =  $2 \times (\text{Length} + \text{Width})$

**Q24.** A water tank has 85.5 liters. If 12.75 liters is used each day, how many complete days will the water last?

## Answer Key

Q1: 0.3

Q2: 42.65

Q3: Hundredths

Q4: True

Q5: 4.8

Q6: 5.75

Q7: 5.25

Q8: 6.87

Q9: 27

Q10: 4.2

Q11: ₹129.00

Q12:  $\frac{1}{4}$

Q13: True

Q14: 11.50

Q15: 13.50 km

Q16: 8.54, 8.45, 8.40,  
8.04

Q17: 3.9

Q18: a-iii, b-iv, c-i, d-ii

Q19: ₹606.25

Q20: 6.38

Q21: 39.2 km/hr

Q22: 22.4

Q23: 23.4 m

Q24: 6 days



## Scoring Guide

### Score Range

### Performance

20-24 correct

☆☆☆ Excellent! Decimals Master!

15-19 correct

☆☆ Very Good! Keep practicing!

10-14 correct

☆ Good effort! Review the concepts!

Below 10

💪 Keep trying! Practice makes perfect!

Total Questions: 24 | Your Score: \_\_\_\_\_ / 24

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