

# Grade 7 - Terminal Exams

## Answer Key

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Mathematics

### Section A: Number Operations

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**1. Solve the following:**

a)  $7,834 + 5,978 = 13,812$

b)  $9,432 - 6,789 = 2,643$

c)  $567 \times 24 = 13,608$

d)  $3,696 \div 16 = 231$

e)  $5^3 = 125$

**2. Arrange the following fractions in ascending order:**

$\frac{1}{2}$ ,  $\frac{2}{5}$ ,  $\frac{7}{10}$ ,  $\frac{3}{4}$ ,  $\frac{4}{5}$

Explanation: Converting to decimals:  $\frac{1}{2} = 0.5$ ,  $\frac{2}{5} = 0.4$ ,  $\frac{7}{10} = 0.7$ ,  $\frac{3}{4} = 0.75$ ,  $\frac{4}{5} = 0.8$

### Section B: Fractions and Decimals

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**3. Convert the following:**

a)  $\frac{3}{8}$  to decimal = 0.375

b) 0.75 to fraction in simplest form =  $\frac{3}{4}$

c) 0.125 to fraction in simplest form =  $\frac{1}{8}$

d)  $\frac{7}{20}$  to decimal = 0.35

e) 0.36 to fraction in simplest form =  $\frac{9}{25}$

**4. Solve the following:**

a)  $\frac{2}{3} + \frac{1}{6} = \frac{4}{6} + \frac{1}{6} = \frac{5}{6}$

b)  $\frac{5}{8} - \frac{1}{4} = \frac{5}{8} - \frac{2}{8} = \frac{3}{8}$

c)  $\frac{3}{4} \times \frac{2}{3} = \frac{6}{12} = \frac{1}{2}$

d)  $\frac{2}{5} \div \frac{3}{10} = \frac{2}{5} \times \frac{10}{3} = \frac{20}{15} = \frac{4}{3}$

e)  $1.25 + 3.75 = 5.00$

## Section C: Geometry and Measurement

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**5. Calculate the perimeter and area of a rectangle with length 12 cm and width 8 cm.**

Perimeter =  $2(l + w) = 2(12 + 8) = 2(20) = 40$  cm

Area =  $l \times w = 12 \times 8 = 96$  cm<sup>2</sup>

**6. Calculate the perimeter and area of a square with side length 9 cm.**

Perimeter =  $4s = 4 \times 9 = 36$  cm

$$\text{Area} = s^2 = 9^2 = 81 \text{ cm}^2$$

**7. A circular garden has a radius of 7 meters. Calculate its circumference and area. (Use  $\pi = 22/7$ )**

$$\text{Circumference} = 2\pi r = 2 \times 22/7 \times 7 = 44 \text{ meters}$$

$$\text{Area} = \pi r^2 = 22/7 \times 7^2 = 22/7 \times 49 = 154 \text{ m}^2$$

## Section D: Word Problems

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**8. Ravi bought  $3 \frac{1}{2}$  kg of apples,  $2 \frac{3}{4}$  kg of oranges, and  $1 \frac{1}{4}$  kg of grapes. What is the total weight of the fruits he bought?**

$$\text{Total weight} = 3 \frac{1}{2} + 2 \frac{3}{4} + 1 \frac{1}{4} = 3.5 + 2.75 + 1.25 = 7.5 \text{ kg}$$

**9. A rectangular playground is 25 meters long and 15 meters wide. Find the cost of fencing the playground at the rate of ₹125 per meter.**

$$\text{Perimeter of playground} = 2(l + w) = 2(25 + 15) = 2(40) = 80 \text{ meters}$$

$$\text{Cost of fencing} = 80 \times 125 = ₹10,000$$

**10. Meera had ₹2,500. She spent  $\frac{3}{5}$  of her money on books and  $\frac{1}{4}$  of the remaining on stationery. How much money does she have left?**

$$\text{Money spent on books} = \frac{3}{5} \times 2,500 = 1,500$$

$$\text{Money remaining after buying books} = 2,500 - 1,500 = 1,000$$

$$\text{Money spent on stationery} = \frac{1}{4} \times 1,000 = 250$$

Money left =  $1,000 - 250 = ₹750$

*End of Answer Key*

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