



# Holiday Assignments

## English Junior Section

Mathematics 04 (Mass & Square Root)

Grade 8

English Medium

### (I) Fill in the blanks :

(a)  $4\text{kg} = \dots\dots\dots \text{g}$

(k)  $3.2\text{kg} = \dots\dots\dots \text{g}$

(b)  $4\frac{1}{2}\text{kg} = \dots\dots\dots \text{g}$

(l)  $0.001\text{kg} = \dots\dots\dots \text{g}$

(c)  $3\text{g} = \dots\dots\dots \text{mg}$

(m)  $3.6\text{g} = \dots\dots\dots \text{mg}$

(d)  $14\text{t} = \dots\dots\dots \text{kg}$

(n)  $10.5\text{t} = \dots\dots\dots \text{kg}$

(e)  $0.064\text{t} = \dots\dots\dots \text{kg}$

(o)  $3.5\text{t} = \dots\dots\dots \text{kg}$

(f)  $17000\text{g} = \dots\dots\dots \text{kg}$

(p)  $4250\text{kg} = \dots\dots\dots \text{g}$

(g)  $3400\text{t} = \dots\dots\dots \text{kg}$

(q)  $600\text{mg} = \dots\dots\dots \text{g}$

(h)  $7200\text{mg} = \dots\dots\dots \text{t}$

(r)  $4500\text{mg} = \dots\dots\dots \text{t}$

(i)  $24000\text{kg} = \dots\dots\dots \text{t}$

(s)  $8250\text{kg} = \dots\dots\dots \text{t}$

(j)  $500\text{kg} = \dots\dots\dots \text{t}$

(t)  $1.3\text{t} = \dots\dots\dots \text{kg}$

### (II) Fill in the blanks :

(a)  $12\text{t } 600\text{kg} = \dots\dots\dots \text{kg}$

(b)  $12.4\text{t} = \dots\dots\dots \text{t } \dots\dots\dots \text{kg}$

(c)  $4300\text{g} = \dots\dots\dots \text{kg } \dots\dots\dots \text{g}$

(d)  $9.86\text{kg} = \dots\dots\dots \text{kg } \dots\dots\dots \text{g}$

(e)  $15.06\text{g} = \dots\dots\dots \text{g } \dots\dots\dots \text{mg}$

(f)  $5400\text{kg} = \dots\dots\dots \text{t } \dots\dots\dots \text{kg}$

(g)  $10300\text{mg} = \dots\dots\dots \text{g } \dots\dots\dots \text{mg}$

(h)  $6.04\text{kg} = \dots\dots\dots \text{kg } \dots\dots\dots \text{g}$

- (i)  $14\text{kg } 150\text{g} = \dots\dots\dots \text{g}$   
 (j)  $7\text{t } 5\text{kg} = \dots\dots\dots \text{t}$   
 (k)  $6.005\text{t} = \dots\dots\dots \text{t } \dots\dots\dots \text{kg}$

**(III) Add the following :**

- |   |   |
|---|---|
| (a) $5\text{t} + 6\text{t} + 13\text{t}$                  | (f) $32\text{t } 256\text{kg} + 46\text{t } 855\text{kg}$                       |
| (b) $12\text{t } 600\text{kg} + 3\text{t} + 250\text{kg}$ | (g) $24\text{t } 890\text{kg} + 12\text{t } 210\text{kg}$                       |
| (c) $4.9\text{t} + 5.6\text{t} + 4.8\text{t}$             | (h) $120\text{t } 450\text{kg} + 40\text{t } 280\text{kg}$                      |
| (d) $4.8\text{t} + 12.6\text{t} + 45.8\text{t}$           | (i) $6\text{t } 5\text{kg} + 7\text{t } 050\text{kg} + 4\text{t } 180\text{kg}$ |
| (e) $4\text{t } 600\text{kg} + 5\text{t } 250\text{kg}$   | (j) $11\text{t } 650\text{kg} + 5\text{t } 50\text{kg}$                         |

**(IV) Subtract the following :**

- |  |   |
|--|---|
| (a) $15\text{t } 450\text{kg} - 9200\text{kg}$           | (f) $12.5\text{t} - 5.25\text{t}$                         |
| (b) $12\text{kg } 400\text{g} - 8\text{kg } 600\text{g}$ | (g) $10\text{t} - 4250\text{kg}$                          |
| (c) $6\text{t } 700\text{kg} - 3\text{t } 120\text{kg}$  | (h) $14.5\text{t} - 2.8\text{t}$                          |
| (d) $6\text{t} - 4\text{t } 200\text{kg}$                | (i) $12\text{t } 950\text{kg} - 11\text{t } 250\text{kg}$ |
| (e) $6\text{t } 450\text{kg} - 3.5\text{t}$              | (j) $28000\text{kg} - 12\text{t } 800\text{kg}$           |

**(V) Multiply the following :**

- |  |  |
|--|--|
| (a) $4\text{t } 200\text{kg} \times 7$   | (f) $6800\text{kg} \times 7$             |
| (b) $12\text{t } 200\text{kg} \times 6$  | (g) $10\text{t } 140\text{kg} \times 24$ |
| (c) $20\text{t} \times 12$               | (h) $7\text{t } 900\text{kg} \times 8$   |
| (d) $16\text{t } 300\text{kg} \times 10$ | (i) $4\text{t } 200\text{kg} \times 5$   |
| (e) $4.5\text{t} \times 6$               | (j) $2\text{t } 260\text{kg} \times 12$  |

**(VI) Divide the following :**

(a)  $6\text{t } 600\text{kg} \div 3$

(b)  $4\text{t } 900\text{kg} \div 4$

(c)  $5\text{t } 200\text{kg} \div 2$

(d)  $7\text{t } 140\text{kg} \div 7$

(e)  $13\text{t } 800\text{kg} \div 5$

(f)  $10\text{t } 400\text{kg} \div 10$

(g)  $12.8\text{t} \div 4$

(h)  $2400\text{kg} \div 8$

(i)  $12\text{t } 400\text{kg} \div 5$

(j)  $16\text{t } 250\text{kg} \div 6$

**(VII) Find the value of :**

(a)  $\sqrt{576}$

(b)  $\sqrt{9^2 - 3^2}$

(c)  $\sqrt{2 \times 8}$

(d)  $\sqrt{2 \times 4 \times 2 \times 4}$

(e)  $\sqrt{m^2 \times n^2 \times p^2}$

(f)  $\sqrt{1521}$

(g)  $\sqrt{4225}$

(h)  $\sqrt{5^2 \times X^2 \times y^2}$

(i)  $\sqrt{(2 \times 3 \times 4)^2}$

(j)  $\sqrt{3 \times 3 \times 4 \times 4 \times 5 \times 5}$

**(VIII) Find the square root using observation :**

(a)  $\sqrt{1225}$

(b)  $\sqrt{900}$

(c)  $\sqrt{289}$

(d)  $\sqrt{1225}$

(e)  $\sqrt{361}$

(f)  $\sqrt{324}$

(g)  $\sqrt{169}$

(h)  $\sqrt{1681}$

(i)  $\sqrt{2809}$

(j)  $\sqrt{3600}$

**(IX) Find the square root using prime factors :**

(f)  $\sqrt{784}$

(f)  $\sqrt{1849}$

(g)  $\sqrt{529}$

(g)  $\sqrt{144}$

(h)  $\sqrt{1024}$

(h)  $\sqrt{625}$

(i)  $\sqrt{1936}$

(i)  $\sqrt{841}$

(j)  $\sqrt{1296}$

(j)  $\sqrt{1369}$

**POINTS TO REMEMBER :**

- 1g = 1000mg
- 1kg = 1000g
- 1t = 1000kg

**Finding the square root using observation**

Digits in the unit place of the perfect square	Digit in the units place of the square root
➤ 1	➤ 1 or 9
➤ 4	➤ 2 or 8
➤ 5	➤ 5
➤ 6	➤ 4 or 6
➤ 9	➤ 3 or 7
➤ 0	➤ 0