

Measurement of Weight
Grade 2

Name: _____ Date: _____

Section A: Choose the Correct Unit

Write **mg**, **g**, or **kg** for each item

Item	Unit
1. A grain of sugar	_____
2. A washing machine	_____
3. A birthday card	_____
4. A baby's medicine tablet	_____
5. Your school principal	_____
6. A bunch of grapes	_____
7. A speck of dust	_____
8. A television	_____
9. A vitamin pill	_____
10. A bag of cement	_____

Section B: Measurement or Weight?

Write **Weight** or **Length** or **Volume** for what we measure

Item	What do we measure?
1. Cloth for a dress	_____
2. Butter	_____
3. A piece of rope	_____
4. Sugar for tea	_____
5. Water in a bottle	_____
6. Potatoes at the market	_____
7. Ribbon for gift wrapping	_____
8. Cheese for a sandwich	_____
9. Height of a building	_____
10. Meat from the butcher	_____

Section C: Conversion - Fill in the Blanks

1. 5 kg = _____ g
2. 8000 g = _____ kg
3. 12 kg = _____ g
4. 25,000 g = _____ kg
5. 3 g = _____ mg
6. 9000 mg = _____ g
7. 7 kg = _____ g
8. 15,000 g = _____ kg
9. 20 g = _____ mg

10.6000 mg = _____ g

Section D: Advanced Conversion

Convert to the unit shown

- 1. 4 kg 500 g = _____ g
 - 2. 3 kg 750 g = _____ g
 - 3. 8500 g = _____ kg _____ g
 - 4. 12,250 g = _____ kg _____ g
 - 5. 6 kg 50 g = _____ g
 - 6. 20,800 g = _____ kg _____ g
 - 7. 15 kg 925 g = _____ g
 - 8. 9075 g = _____ kg _____ g
 - 9. 2 kg 8 g = _____ g
 - 10. 45,015 g = _____ kg _____ g
-

Section E: Vertical Addition

Solve these addition problems

- | | |
|----------------|----------------|
| 1. 25 kg 450 g | 2. 38 kg 725 g |
| + 17 kg 680 g | + 29 kg 550 g |
| _____ | _____ |
| _____ | _____ |

3. 46 kg 850 g
+ 35 kg 375 g

4. 52 kg 675 g
+ 39 kg 825 g

5. 64 kg 920 g
+ 28 kg 595 g

6. 71 kg 485 g
+ 49 kg 765 g

7. 83 kg 750 g
+ 57 kg 875 g

8. 19 kg 955 g
+ 24 kg 875 g

9. 95 kg 625 g
+ 67 kg 850 g

10. 88 kg 888 g
+ 76 kg 777 g

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Section F: Horizontal Addition

Write the answer in kg and g

1. $32\text{ kg } 560\text{ g} + 19\text{ kg } 740\text{ g} =$ _____

2. $45\text{ kg } 825\text{ g} + 38\text{ kg } 475\text{ g} =$ _____

3. $58\text{ kg } 650\text{ g} + 27\text{ kg } 850\text{ g} =$ _____

4. $73\text{ kg } 945\text{ g} + 49\text{ kg } 755\text{ g} =$ _____

5. $61\text{ kg } 380\text{ g} + 55\text{ kg } 820\text{ g} =$ _____

6. $84\text{ kg } 725\text{ g} + 68\text{ kg } 695\text{ g} =$ _____

7. $29\text{ kg } 915\text{ g} + 76\text{ kg } 485\text{ g} =$ _____

8. $92\text{ kg } 575\text{ g} + 81\text{ kg } 925\text{ g} =$ _____

9. $37\text{ kg } 855\text{ g} + 64\text{ kg } 645\text{ g} =$ _____

10. $55\text{ kg } 950\text{ g} + 88\text{ kg } 975\text{ g} =$ _____

Section G: Vertical Subtraction

Solve these subtraction problems

1. $48\text{ kg } 850\text{ g}$

$- 29\text{ kg } 375\text{ g}$

2. $67\text{ kg } 625\text{ g}$

$- 39\text{ kg } 750\text{ g}$

3. $85\text{ kg } 425\text{ g}$

$- 48\text{ kg } 650\text{ g}$

4. $92\text{ kg } 300\text{ g}$

$- 57\text{ kg } 825\text{ g}$

5. 74 kg 200 g

- 38 kg 750 g

6. 56 kg 150 g

- 28 kg 675 g

7. 100 kg 000 g

- 45 kg 850 g

8. 63 kg 100 g

- 36 kg 850 g

9. 81 kg 050 g

- 49 kg 875 g

10. 95 kg 025 g

- 68 kg 950 g

Section H: Horizontal Subtraction

Write the answer in kg and g

1. 65 kg 950 g - 37 kg 475 g = _____

2. 82 kg 625 g - 49 kg 850 g = _____

3. 91 kg 300 g - 58 kg 725 g = _____

4. 77 kg 100 g - 39 kg 650 g = _____

5. 54 kg 250 g - 28 kg 875 g = _____

6. 88 kg 075 g - 59 kg 685 g = _____

7. 70 kg 000 g - 43 kg 750 g = _____

8. $96\text{ kg } 200\text{ g} - 67\text{ kg } 925\text{ g} =$ _____

9. $43\text{ kg } 050\text{ g} - 18\text{ kg } 775\text{ g} =$ _____

10. $80\text{ kg } 100\text{ g} - 52\text{ kg } 850\text{ g} =$ _____

Section I: Word Problems

Read carefully and solve. Show your work!

1. A farmer has 48 kg 750 g of wheat and 35 kg 850 g of rice. What is the total weight of grains he has?

Answer: _____

2. A truck was carrying 85 kg 500 g of vegetables. If 39 kg 750 g were sold, how much is left in the truck?

Answer: _____

3. Maya's weight is 32 kg 450 g and her brother Rohan's weight is 28 kg 875 g. What is their combined weight?

Answer: _____

4. A baker bought 50 kg of flour. She used 18 kg 650 g for making bread and 12 kg 750 g for making cakes. How much flour is left?

Answer: _____

5. Three bags weigh 15 kg 350 g, 22 kg 675 g, and 18 kg 925 g. What is their total weight?

Answer: _____

6. A watermelon weighs 6 kg 750 g. A pumpkin weighs 4 kg 850 g more than the watermelon. What is the weight of the pumpkin?

Answer: _____

7. A shopkeeper had 75 kg 200 g of sugar. After selling some, he has 38 kg 675 g left. How much sugar did he sell?

Answer: _____

8. Ravi bought 5 kg 500 g of apples, 3 kg 750 g of oranges, and 2 kg 850 g of bananas. What is the total weight of all fruits?

Answer: _____

9. A container had 92 kg 100 g of oil. First, 28 kg 450 g was used, then 19 kg 875 g more was used. How much oil is left?

Answer: _____

10. The weight of a dog is 24 kg 825 g. The weight of a cat is 18 kg 950 g less than the dog. What is the weight of the cat?

Answer: _____

Section J: Comparison and Reasoning)

Circle the correct answer

1. Which is heavier?

- a) 5 kg 850 g
- b) 5850 g

2. Which is lighter?

- a) 12,500 g
- b) 12 kg 750 g

3. Arrange in ascending order (lightest to heaviest):

- 8 kg 250 g, 8500 g, 7 kg 900 g
- Answer: _____

4. Which is NOT equal to 4 kg?

- a) 4000 g
- b) 400 g
- c) 4 kg 0 g

5. If 1 apple weighs 150 g, how many grams do 10 apples weigh?

- Answer: _____

6. Which is the best unit to measure the weight of a safety pin?

- a) kg
- b) g
- c) mg

7. True or False: 15,000 mg = 15 g

- Answer: _____

8. If a box weighs 25 kg and you add 3 kg 500 g more, the total weight is:

- a) 28 kg 500 g
- b) 25 kg 350 g
- c) 30 kg 500 g

9. Rearrange from heaviest to lightest:

- 45 kg 100 g, 44 kg 900 g, 45,200 g
- Answer: _____

10. A medicine tablet weighs 500 mg. How many tablets make 5 g?

- Answer: _____

 **Bonus Challenge Questions**

1. If you have 3 bags weighing 12 kg 750 g each, what is the total weight?

Answer: _____

2. A fruit basket has 8 mangoes weighing 250 g each and 6 apples weighing 180 g each. What is the total weight in kg and g?

Answer: _____

3. Convert 25 kg 75 g to milligrams.

Answer: _____

4. A box of books weighs 45 kg 800 g. If each book weighs 1 kg 200 g, approximately how many books are there?

Answer: _____

5. If milk weighs 1030 g per liter, how much do 5 liters weigh in kg and g?

Answer: _____

 **ANSWER KEY**

Section A: Choose the Correct Unit

1. **mg** (very light)
 2. **kg** (heavy appliance)
 3. **g** (light item)
 4. **mg** (medicine is measured in tiny amounts)
 5. **kg** (person's weight)
 6. **g** (light fruit)
 7. **mg** (extremely light)
 8. **kg** (heavy appliance)
 9. **mg** (medicine)
 10. **kg** (heavy construction material)
-

Section B: Measurement or Weight?

1. **Length** (measured in meters)
2. **Weight** (measured in kg/g)
3. **Length** (measured in meters)
4. **Weight** (measured in g)
5. **Volume** (measured in liters/ml)
6. **Weight** (measured in kg)
7. **Length** (measured in meters/cm)
8. **Weight** (measured in g)
9. **Length** (measured in meters)
10. **Weight** (measured in kg)

Section C: Conversion - Fill in the Blanks

1. 5 kg = **5000** g
2. 8000 g = **8** kg
3. 12 kg = **12,000** g
4. 25,000 g = **25** kg
5. 3 g = **3000** mg
6. 9000 mg = **9** g
7. 7 kg = **7000** g
8. 15,000 g = **15** kg
9. 20 g = **20,000** mg
10. 6000 mg = **6** g

Section D: Advanced Conversion

1. 4 kg 500 g = **4500** g
2. 3 kg 750 g = **3750** g
3. 8500 g = **8** kg **500** g
4. 12,250 g = **12** kg **250** g
5. 6 kg 50 g = **6050** g
6. 20,800 g = **20** kg **800** g
7. 15 kg 925 g = **15,925** g
8. 9075 g = **9** kg **75** g
9. 2 kg 8 g = **2008** g
10. 45,015 g = **45** kg **15** g

Section E: Vertical Addition

1. 25 kg 450 g + 17 kg 680 g = **43 kg 130 g**
2. 38 kg 725 g + 29 kg 550 g = **68 kg 275 g**
3. 46 kg 850 g + 35 kg 375 g = **82 kg 225 g**
4. 52 kg 675 g + 39 kg 825 g = **92 kg 500 g**
5. 64 kg 920 g + 28 kg 595 g = **93 kg 515 g**
6. 71 kg 485 g + 49 kg 765 g = **121 kg 250 g**
7. 83 kg 750 g + 57 kg 875 g = **141 kg 625 g**
8. 19 kg 955 g + 24 kg 875 g = **44 kg 830 g**
9. 95 kg 625 g + 67 kg 850 g = **163 kg 475 g**
10. 88 kg 888 g + 76 kg 777 g = **165 kg 665 g**

Section F: Horizontal Addition

1. 32 kg 560 g + 19 kg 740 g = **52 kg 300 g**
2. 45 kg 825 g + 38 kg 475 g = **84 kg 300 g**
3. 58 kg 650 g + 27 kg 850 g = **86 kg 500 g**
4. 73 kg 945 g + 49 kg 755 g = **123 kg 700 g**
5. 61 kg 380 g + 55 kg 820 g = **117 kg 200 g**
6. 84 kg 725 g + 68 kg 695 g = **153 kg 420 g**
7. 29 kg 915 g + 76 kg 485 g = **106 kg 400 g**
8. 92 kg 575 g + 81 kg 925 g = **174 kg 500 g**
9. 37 kg 855 g + 64 kg 645 g = **102 kg 500 g**
10. 55 kg 950 g + 88 kg 975 g = **144 kg 925 g**

Section G: Vertical Subtraction

1. $48 \text{ kg } 850 \text{ g} - 29 \text{ kg } 375 \text{ g} = \mathbf{19 \text{ kg } 475 \text{ g}}$
2. $67 \text{ kg } 625 \text{ g} - 39 \text{ kg } 750 \text{ g} = \mathbf{27 \text{ kg } 875 \text{ g}}$ (borrowing needed)
3. $85 \text{ kg } 425 \text{ g} - 48 \text{ kg } 650 \text{ g} = \mathbf{36 \text{ kg } 775 \text{ g}}$ (borrowing needed)
4. $92 \text{ kg } 300 \text{ g} - 57 \text{ kg } 825 \text{ g} = \mathbf{34 \text{ kg } 475 \text{ g}}$ (borrowing needed)
5. $74 \text{ kg } 200 \text{ g} - 38 \text{ kg } 750 \text{ g} = \mathbf{35 \text{ kg } 450 \text{ g}}$ (borrowing needed)
6. $56 \text{ kg } 150 \text{ g} - 28 \text{ kg } 675 \text{ g} = \mathbf{27 \text{ kg } 475 \text{ g}}$ (borrowing needed)
7. $100 \text{ kg } 000 \text{ g} - 45 \text{ kg } 850 \text{ g} = \mathbf{54 \text{ kg } 150 \text{ g}}$ (borrowing needed)
8. $63 \text{ kg } 100 \text{ g} - 36 \text{ kg } 850 \text{ g} = \mathbf{26 \text{ kg } 250 \text{ g}}$ (borrowing needed)
9. $81 \text{ kg } 050 \text{ g} - 49 \text{ kg } 875 \text{ g} = \mathbf{31 \text{ kg } 175 \text{ g}}$ (borrowing needed)
10. $95 \text{ kg } 025 \text{ g} - 68 \text{ kg } 950 \text{ g} = \mathbf{26 \text{ kg } 75 \text{ g}}$ (borrowing needed)

Section H: Horizontal Subtraction

1. $65 \text{ kg } 950 \text{ g} - 37 \text{ kg } 475 \text{ g} = \mathbf{28 \text{ kg } 475 \text{ g}}$
2. $82 \text{ kg } 625 \text{ g} - 49 \text{ kg } 850 \text{ g} = \mathbf{32 \text{ kg } 775 \text{ g}}$ (borrowing needed)
3. $91 \text{ kg } 300 \text{ g} - 58 \text{ kg } 725 \text{ g} = \mathbf{32 \text{ kg } 575 \text{ g}}$ (borrowing needed)
4. $77 \text{ kg } 100 \text{ g} - 39 \text{ kg } 650 \text{ g} = \mathbf{37 \text{ kg } 450 \text{ g}}$ (borrowing needed)
5. $54 \text{ kg } 250 \text{ g} - 28 \text{ kg } 875 \text{ g} = \mathbf{25 \text{ kg } 375 \text{ g}}$ (borrowing needed)
6. $88 \text{ kg } 075 \text{ g} - 59 \text{ kg } 685 \text{ g} = \mathbf{28 \text{ kg } 390 \text{ g}}$ (borrowing needed)
7. $70 \text{ kg } 000 \text{ g} - 43 \text{ kg } 750 \text{ g} = \mathbf{26 \text{ kg } 250 \text{ g}}$ (borrowing needed)
8. $96 \text{ kg } 200 \text{ g} - 67 \text{ kg } 925 \text{ g} = \mathbf{28 \text{ kg } 275 \text{ g}}$ (borrowing needed)
9. $43 \text{ kg } 050 \text{ g} - 18 \text{ kg } 775 \text{ g} = \mathbf{24 \text{ kg } 275 \text{ g}}$ (borrowing needed)
10. $80 \text{ kg } 100 \text{ g} - 52 \text{ kg } 850 \text{ g} = \mathbf{27 \text{ kg } 250 \text{ g}}$ (borrowing needed)

Section I: Word Problems

1. $48 \text{ kg } 750 \text{ g} + 35 \text{ kg } 850 \text{ g} = \mathbf{84 \text{ kg } 600 \text{ g}}$
2. $85 \text{ kg } 500 \text{ g} - 39 \text{ kg } 750 \text{ g} = \mathbf{45 \text{ kg } 750 \text{ g}}$
3. $32 \text{ kg } 450 \text{ g} + 28 \text{ kg } 875 \text{ g} = \mathbf{61 \text{ kg } 325 \text{ g}}$
4. $50 \text{ kg} - 18 \text{ kg } 650 \text{ g} - 12 \text{ kg } 750 \text{ g} = 50 \text{ kg} - 31 \text{ kg } 400 \text{ g} = \mathbf{18 \text{ kg } 600 \text{ g}}$
5. $15 \text{ kg } 350 \text{ g} + 22 \text{ kg } 675 \text{ g} + 18 \text{ kg } 925 \text{ g} = \mathbf{56 \text{ kg } 950 \text{ g}}$
6. $6 \text{ kg } 750 \text{ g} + 4 \text{ kg } 850 \text{ g} = \mathbf{11 \text{ kg } 600 \text{ g}}$
7. $75 \text{ kg } 200 \text{ g} - 38 \text{ kg } 675 \text{ g} = \mathbf{36 \text{ kg } 525 \text{ g}}$
8. $5 \text{ kg } 500 \text{ g} + 3 \text{ kg } 750 \text{ g} + 2 \text{ kg } 850 \text{ g} = \mathbf{12 \text{ kg } 100 \text{ g}}$
9. $92 \text{ kg } 100 \text{ g} - 28 \text{ kg } 450 \text{ g} - 19 \text{ kg } 875 \text{ g} = 92 \text{ kg } 100 \text{ g} - 48 \text{ kg } 325 \text{ g} = \mathbf{43 \text{ kg } 775 \text{ g}}$
10. $24 \text{ kg } 825 \text{ g} - 18 \text{ kg } 950 \text{ g} = \mathbf{5 \text{ kg } 875 \text{ g}}$

Section J: Comparison and Reasoning

1. **b) 5850 g** (equals 5 kg 850 g, same weight)
2. **a) 12,500 g** (equals 12 kg 500 g, lighter than 12 kg 750 g)
3. **7 kg 900 g, 8 kg 250 g, 8500 g** ($8500 \text{ g} = 8 \text{ kg } 500 \text{ g}$)
4. **b) 400 g** (only 0.4 kg)
5. **1500 g** (150×10)
6. **c) mg** (very light object)
7. **True** ($15,000 \div 1000 = 15$)
8. **a) 28 kg 500 g**
9. **45,200 g (45 kg 200 g), 45 kg 100 g, 44 kg 900 g**
10. **10 tablets** ($5 \text{ g} = 5000 \text{ mg}$, $5000 \div 500 = 10$)

Bonus Challenge Questions

1. $12 \text{ kg } 750 \text{ g} \times 3 = \mathbf{38 \text{ kg } 250 \text{ g}}$

2. Mangoes: $8 \times 250 \text{ g} = 2000 \text{ g} = 2 \text{ kg}$ Apples: $6 \times 180 \text{ g} = 1080 \text{ g} = 1 \text{ kg } 80 \text{ g}$ Total: **3 kg 80 g**
 3. $25 \text{ kg } 75 \text{ g} = 25,075 \text{ g} = 25,075 \times 1000 = \mathbf{25,075,000 \text{ mg}}$
 4. $45,800 \div 1,200 \approx \mathbf{38 \text{ books}}$ (approximately)
 5. $1030 \text{ g} \times 5 = 5150 \text{ g} = \mathbf{5 \text{ kg } 150 \text{ g}}$
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