

CHAPTER 8 – WHO IS HEAVIER ?

- **MULTIPLICATION AND DIVISION OF MASS**
- **MATHS COPY 2**
- **DATE: 27/01/2022**

WS - 100

1. Subtract the given weights:

(i) 76 kg 142 g – 24 kg 031 g = 52 kg 111 g

(ii) 62 kg 579 g – 51 kg 560 g = 11kg 019 g

(iii) 100 kg 529 g – 36 kg 610 g = 63 kg 919 g

(iv) 321 kg 450 g – 50 kg 290 g = 271 kg 160 g

(v) 560 kg 000 g – 110 kg 850 g = 449 kg 150 g

2. Add the given weights:

(i) 50 kg 931 g + 38 kg 279 g = 89 kg 210 g

(ii) 66 kg 440 g + 29 kg 666 g = 96 kg 106 g

(iii) 146 kg 636 g + 254 kg 795 g = 401 kg 431 g

(iv) 749 kg 970 g + 114 kg 139 g = 864 kg 109 g

(v) 502 kg 205 g + 479 kg 195 g = 981 kg 400 g

1. MULTIPLY 32 KG 126 G BY 7.

A photograph of a handwritten calculation on lined paper. The calculation is arranged in columns. The first column is labeled 'Kg' and contains the number '32'. The second column is labeled 'g' and contains the number '126'. A multiplication sign 'x' is placed between the two columns. A horizontal line is drawn below the numbers. Below the line, the result '224' is written under the 'Kg' column, and '882' is written under the 'g' column. A second horizontal line is drawn below the result.

Therefore, $32 \text{ kg } 126 \text{ g} \times 7 = 224 \text{ kg } 882 \text{ g}$.

2. MULTIPLY 19 KG 763 G BY 5.

A photograph of a handwritten calculation on lined paper. The calculation is arranged in columns. The first column is labeled 'Kg' and contains the number '19'. The second column is labeled 'g' and contains the number '763'. Below these, a horizontal line is drawn. Underneath the line, the number '5' is written, with an 'x' symbol to its left. Another horizontal line is drawn below '5'. The final result, '98 815', is written below the second line, with '98' under the 'Kg' column and '815' under the 'g' column.

Therefore, $19 \text{ kg } 763 \text{ g} \times 5 = 98 \text{ kg } 815 \text{ g}$

3) MULTIPLY 82 KG 135 G BY 6

A handwritten multiplication problem on lined paper. The first line shows 'kg' above '82' and 'g' above '135'. The second line shows '82' and '135'. The third line shows 'x' above '6'. A horizontal line is drawn below 'x' and '6'. The fourth line shows the result '492' and '810'. A second horizontal line is drawn below '492' and '810'.

Therefore , $82 \text{ kg } 135 \text{ g} \times 6 = 492 \text{ kg } 810 \text{ g}$

4) Divide 94 kg 464 g by 4

First convert 94 kg 464 g into g
 $94 \text{ kg } 464 \text{ g} = (94 \times 1000) \text{ g} + 464 \text{ g}$
 $= 94000 \text{ g} + 464 \text{ g}$
 $= 94464 \text{ g}$

Now, Divide 94464 g by 4

$$\begin{array}{r} 23616 \text{ g} \\ 4 \overline{) 94464} \\ \underline{-8} \\ 14 \\ \underline{-12} \\ 24 \\ \underline{-24} \\ 06 \\ \underline{4} \\ 24 \\ \underline{-24} \\ 0 \\ \hline \end{array}$$

Now, convert 23616 g into kg and g
 $\Rightarrow 23616 \text{ g} = (23616 \div 1000) \text{ kg}$
 $= \underline{23 \text{ kg } 616 \text{ g}}$

Therefore,
 $94 \text{ kg } 464 \text{ g} \div 4 = \underline{23 \text{ kg } 616 \text{ g}}$

Process 2

$$94 \text{ kg } 464 \text{ g} \div 4$$

$$\begin{array}{r} 23 \text{ kg } 616 \text{ g} \\ 4 \overline{) 94 \text{ kg } 464 \text{ g}} \\ \underline{-8} \downarrow \\ 14 \\ \underline{-12} \\ \times 2 \downarrow 4 \\ -24 \downarrow \\ \times \times 6 \\ -4 \downarrow \\ 24 \\ \underline{-24} \\ \times \times \end{array}$$

Ans) $94 \text{ kg } 464 \text{ g} \div 4 = 23 \text{ kg } 616 \text{ g}$

5) Divide 26 kg 525 g by 5

First convert 26 kg 525 g into g

We know, $1 \text{ kg} = 1000 \text{ gm}$

$$\begin{aligned} 26 \text{ kg } 525 \text{ g} &= (26 \times 1000) \text{ g} + 525 \text{ g} \\ &= 26000 \text{ g} + 525 \text{ g} \\ &= 26525 \text{ g} \end{aligned}$$

Now, divide 26525 g by 5

$$\begin{array}{r} 5305 \text{ g} \\ 5 \overline{) 26525} \\ \underline{-25} \\ 15 \\ \underline{-15} \\ 02 \\ \underline{-0} \\ 25 \\ \underline{-25} \\ 0 \end{array}$$

Convert 5305 g into kg and g

We know,

$$1000 \text{ g} = 1 \text{ kg}$$

$$\begin{aligned} 5305 \text{ g} &= (5305 \div 1000) \text{ kg} \\ &= 5 \text{ kg } 305 \text{ g} \end{aligned}$$

Therefore,

$$26 \text{ kg } 525 \text{ g} \div 5 = 5 \text{ kg } 305 \text{ g}$$

Process 2.

$$26 \text{ kg } 525 \text{ g} \div 5$$

$$\begin{array}{r} 5 \text{ kg } 305 \text{ g} \\ 5 \overline{) 26 \text{ kg } 525 \text{ g}} \\ \underline{-25} \\ \times 1 \\ \underline{-15} \\ \times \times 25 \\ \underline{-25} \\ \times \end{array}$$

$$\text{Ans) } 26 \text{ kg } 525 \text{ g} \div 5 = 5 \text{ kg } 305 \text{ g}$$

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1. Multiply the given:

(i) 7 kg 34 g by 10

(ii) 42 g 30 mg by 5

(iii) 48 kg 16 g by 6

(iv) 80 kg 450 g by 3

(v) 33 g 72 mg by 11

2. Divide the given measures:

(i) 128 kg 32 g by 8

(ii) 46 kg 150 g by 5

(iii) 74 kg 4 g by 6

(iv) 38 g 450 mg by 10

(v) 67 g 325 mg by 5

THANK YOU