

Name: ..... Class: .....

Measurement word problems

- a. A box containing 6 books of equal weight weighs 8kg. What is the weight of each book. Considering that the weight of the box alone is 0.6kg.
- b. Mary is reading a novel written by Enid Blyton. Yesterday, she read a total of  $3\frac{1}{2}$  hours. Today, she read only  $2\frac{1}{4}$  hours. How many more hours did she read yesterday than today? Simplify your answer if possible.
- c. Suzy and her 5 friends decided to go on a vacation to an asorted island. They found a hotel they like for \$860 per night. They decided to split this cast equally amongst themselves. How much will each person pay after their stay of 10 days?



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## Measurement word problems

- a. A box containing 6 books of equal weight weighs 8kg. What is the weight of each book. Considering that the weight of the box alone is 0.6kg.

Let's first of all interpret the question by writing down the given information.

Weight of box = 0.6 kg.

Weight of the 6 books plus the box = 8 kg

Therefore, weight of the 6 books alone =  $(8 - 0.6)$  kg = 7.4 kg

Now, if 6 books weigh 7.4kg

Then 1 book will weigh =  $\frac{7.4 \times 1}{6} = 1.2$  kg

So, each book weighs 1.2kg

- b. Mary is reading a novel written by Enid Blyton. Yesterday, she read a total of  $3\frac{1}{2}$  hours. Today, she read only  $2\frac{1}{4}$  hours. How many more hours did she read yesterday than today? Simplify your answer if possible.

Let's first of all write down the given information.

Number of hours Mary read yesterday =  $3\frac{1}{2}$

Number of hours Mary read today =  $2\frac{1}{4}$

So, to find how many more hours she read yesterday than today,

let's subtract  $2\frac{1}{4}$  hours from  $3\frac{1}{2}$  hours.

$$\begin{array}{r} 3\frac{1}{2} - 2\frac{1}{4} \\ (3-2) \quad 2 - 1 \\ \hline \quad \quad 4 \end{array}$$

So, mary read more  $1\frac{1}{4}$  hours yesterday than today.



- c. Suzy and her 5 friends decided to go on a vacation to an asorted island. They found a hotel they like for \$860 per night. They decided to split this cast equally amongst themselves. How much will each person pay after their stay of 10 days?

To solve this problem, let's divide the total amount paid by the number of persons.

Number of people = Suzy + her 5 friends =  $1 + 5 = 6$ .

So, total amount paid by each person =  $\$860 \div 6 = \$143.33$

Finally, amount paid by each person after 10 days =  $\$143.33 \times 10 = \$1,433.3$