

## Challenging Grade 3 Math Worksheets with Word Problems

Grade 3 students, typically 8 years old, are just stepping into the exciting world of Mathematics and its complexities. Moreover, they are introduced to the world of challenging word problems which require a degree of understanding of English as well as basic mathematic concepts. The following word problems should be very much accessible to Grade 3 students with a little bit of guidance from teachers and parents.

- 1. In a village festival, many food items were sold. Stall A sold 3675 cookies while stall B sold 1240 cookies fewer than stall A. How many cookies did both stall sell altogether?
- 2. Tina saved \$3500.00 in April. Her monthly salary was two times the amount she saved in April. In May, she spent \$2913.00 and saved the rest. How much did she save in May?
- 3. Mariam had 5819 beads. She used 1895 beads for an art project. She packed the rest of the beads equally into 6 bags. How many beads were contained in each bag?
- 4. John bought two bags of cashew nuts. One bag contained 4890 g of cashew nuts and the other bag contained 2790 g of cashew nuts. He repacked the cashew nuts equally into 8 smaller packets. Calculate the mass of the cashew nuts in each packet?
- 5. There were 25 rows of chairs in a hall. Each row had 42 chairs. During a concert, 964 chairs were filled. How many chairs were empty?
- 6. Factory A produces 2846 tins a day. Factory B produces 3159 tins a day. How many tins do the two factories produce in 5 days?
- 7. An aircraft has 168 seats.
  - a) 1/7 of the seats are empty. How many seats are occupied?
  - b) 75% of the seats are in the economy class. Calculate the number of seats in the economy class.
- 8. An aeroplane left Kuala Lumpur at 18 40 hours taking 2 hours and 30 minutes to reach Singapore. What time did the plane reach Singapore?
- 9. The population of a certain town in Asia is 6500. Given that 75% of them are employed, calculate the number of people who are unemployed.



## Answer key

1. Cookies sold by stall A = 3675

Cookies sold by stall B = 3675 - 1240 = 2435

Cookies sold by both the stalls together = 3675+2435=6110

2. Money saved by Tina in April = \$3500

Tina's monthly salary= $$3500 \times 2 = $7000$ 

Money spent by Tina in May = \$2913

Money saved by Tina in May = \$7000 - \$2913 = \$4087

3. The number of beads that Mariam had = 5819

The number of beads she used for the art project = 1895

The rest of the beads = 5819 - 1895 = 3924

The number of beads in each bag =  $3924 \div 6 = 654$ .

- 4. Total mass of cashew nuts in both the bags together = 4890 g + 2790 g = 7680 gThe mass of cashew nuts in each smaller packet =  $7680 \div 8 = 960 \text{ g}$
- 5. The number of rows of chairs in the hall = 25

The number of chairs placed in each row = 42

The total number of chairs =  $25 \times 42 = 1050$ 

The number of chairs that were filled = 964

The number of chairs that were empty = 1050 - 964 = 86.

6. Number of tins produced by factory A = 2846

Number of tins produced by factory B = 3159

The total number of tins produced by the two factories together in one day = 2846 + 3159 = 6005

The total number of tins produced by the two factories in 5 days =  $6005 \times 5 = 30025$ 

7. a) Fraction of seats that is not occupied = 1/7

Fraction of seats that is occupied = 6/7

Number of seats that are occupied =  $6/7 \times 168 = 1008/7 = 144$  seats.

a) Percentage of seats in the economy class = 75% (3/4)

Number of seats in the economy class =  $\frac{3}{4} \times 168 = 126$ .

8. The time the aeroplane left Kuala Lumpur = 18:40

Time taken to reach Singapore = 2 hours 30 minutes

The time the aeroplane reached Singapore = 18 40 + 2 hours 30 minutes = 21: 10.

9. The population of the town = 6500

The percentage of people who are employed = 75% (3/4)

The number of people who are unemployed =  $6500 \times \frac{1}{4} = 1625$ .