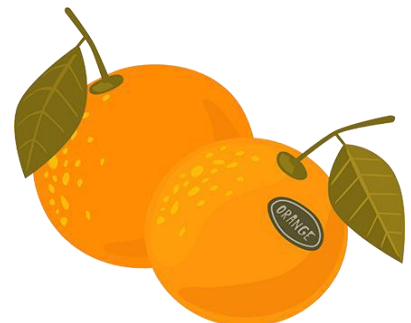




Fractions – mixed operations word problems

Grade 5 Word Problems Worksheet

1. In 2 days of working, Jacob earned \$15 on Monday from selling recyclable bottles and \$27 from recyclable cans on Tuesday. He put $\frac{5}{6}$ of his earnings in his piggy bank and used the rest to buy a shirt. How much money did he save?
2. Nathan went to the mall to buy a pair of jeans. The price of a pair of jeans was \$60. They were on sale, so the price was less one-tenth of the original price. Every loyalty card holder gets an additional discount, which is $\frac{1}{5}$ off the original price. How much did he pay for the pair of jeans if he has a loyalty card?
3. There were 80 oranges in the basket. Marcus ate 5 of them. Owen shared one-third of the oranges left in the basket with his friends. How many oranges were left in the basket after James took 5?





4. A box of pizza was left out on the table by Levi's brother. $\frac{1}{8}$ of the pizza had already been eaten by his brother. Levi ate $\frac{2}{5}$ of the pizza on the table and drank 2 glasses of soda. How much of the whole pizza did Levi eat?
5. To bake a loaf bread requires $\frac{2}{5}$ kilograms of flour and $\frac{4}{9}$ of a box of butter. How many loaves of bread can a baker make if he has 40 kilograms of flour?
6. There are 6 boxes, each containing 12 candy bars. How many candy bars are there altogether? If $\frac{2}{3}$ of the candy bars are chocolate, how many chocolate bars are there?



Answers

1. $\$15 + \$27 = \$42$ – Total earnings from the recyclable materials
 $42 \times \frac{5}{6} = 35$
 Jacob saved \$35 from his earnings and put them in his piggy bank.
2. $\frac{1}{10} + \frac{1}{5} = \frac{3}{10}$ discount
 $60 \times \frac{3}{10} = 18$, the total discount is \$18.
 $60 - 18 = 42$
 Nathan paid \$42 for the pair of jeans.
3. $80 - 5 = 75$ oranges after Marcus ate 5
 $75 \times \frac{1}{3} = 25$ oranges were shared by Owen with his friends
 $75 - 25 = 50$ oranges after Owen shared $\frac{1}{3}$ of what was left in the basket
 $50 - 5 = 45$
 45 oranges were left in the basket.
4. $\frac{8}{8} (1 \text{ whole}) - \frac{1}{8} = \frac{7}{8}$ of the pizza was left initially
 $\frac{7}{8} \times \frac{2}{5} = \frac{14}{40}$ which reduces to $\frac{7}{20}$
 $\frac{7}{20}$ of the pizza was eaten by Levi.
5. $40 \div \frac{2}{5} = 100$
 A baker can make 100 loaves of bread with 40 kilograms of flour.
6. $6 \times 12 = 72$ candy bars
 $72 \times \frac{2}{3} = 48$
 There are 48 chocolate bars.