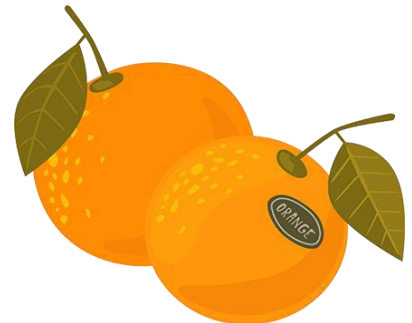


## Fractions – mixed operations word problems

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### 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?



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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?

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## Answers

- $\$15 + \$27 = \$42$  – 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.
- $\frac{1}{10} + \frac{1}{5} = \frac{3}{10}$  discount  
 $60 \times \frac{3}{10} = 18$ , the total discount is \$18.  
 $60 - 18 = 42$   
Nathan paid \$42 for the pair of jeans.
- $80 - 5 = 75$  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.
- $\frac{8}{8} (1 \text{ whole}) - \frac{1}{8} = \frac{7}{8}$  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.
- $40 \div \frac{2}{5} = 100$   
A baker can make 100 loaves of bread with 40 kilograms of flour.
- $6 \times 12 = 72$  candy bars  
 $72 \times \frac{2}{3} = 48$   
There are 48 chocolate bars.