



# Helping With Math

## Solving Two-Step Problems

GRADE 3



Solving any math problem is not only accountable with one step or process, it may have a different procedure to arrive with the same answer. Two-step process is one way of solving a math problem in two equation, which can be in the means of addition, subtraction, multiplication and / or division.



I had 12 chips. I gave my friend 2 of them. Then I bought another 4. How many chips do I have in all?



### Solving Two-Step Problems

First step: Subtract the total number of chips to the first given scenario. ( $12 - 2 = 10$ )

Second step: Add the answer obtained from the first step to the second scenario. ( $10 + 4 = 14$ ) : So, the girl has 14 chips in total.



## RULES IN SOLVING



## TWO-STEP WORD PROBLEMS

- ❑ A two-step math word problem requires you to solve two equations before you arrive to an answer. The problem might have two different operations (like multiplication and addition), or it might have two of the same operation.



### REMINDERS:

- Read the problems wholly and carefully
- Do a sketch to illustrate, if possible
- Assign or translate the words into numbers

- ★ Read it carefully until you decide what you need to do, including which step to complete first.
- ★ Re-read the problem if necessary.
- ★ Work through the first step of the given scenario.
- ★ Look at the important information in the problem, and turn that equation into an equation by translating words into operation.
- ★ \*Feel free to draw images to better picture-out the problem.



## ILLUSTRATIVE EXAMPLE



### EXAMPLE

John has \$20 bill. He buys 6 apple juice for \$1 each. How much money did John have left?

Analyze the problem. In this case, the operations that will be used are multiplication and subtraction.

1st step: **Multiplication**

Each apple juice cost \$1. So

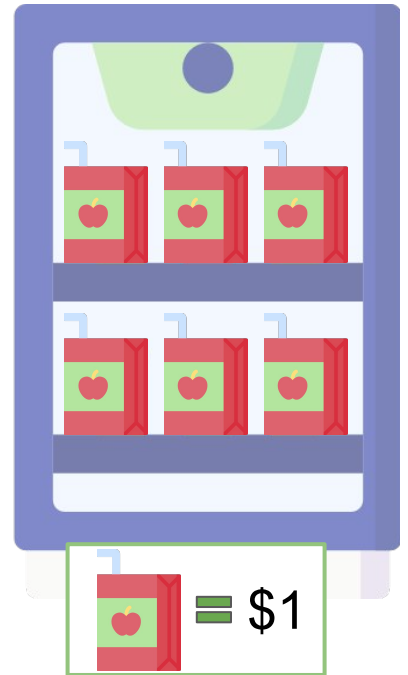
$$6 \times \$1 = \$6$$



2nd step: **Subtraction**

The product obtained in the 1st step will be subtracted from John's money. So

$$\$20 - \$6 = \$12$$



The Smith children bought grocery package worth \$10 each pack. Andy Smith bought 2 and Sarah Smith bought 4. What is the total cost of the packages they bought?



### EXERCISE



## TABLE OF ACTIVITIES

1. A Successful Grocery
2. At the Supermarket
3. Grocery Cart
4. The Store Keeper
5. Necessities
6. Barcode
7. Supermarket Coupons
8. The Bigger, the Better?
9. My Own Store
10. My Grocery List



# A SUCCESSFUL GROCERY

Help Mandy get into the grocery store! Enumerate the general steps presented in the concept part of this worksheet. Write them on the space provided.



5.



4.



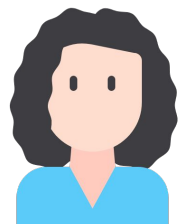
3.



2.



1.



# AT THE SUPERMARKET

Help Ron buy all the products he needs. Solve each problem correctly. Below are the illustrations for your reference.

1. He has \$15. He bought bread and steak. How much was left on his money?

2. He bought 2 cereals and 3 milk. How much did he spend in all?

3. He bought 5 broccoli and 2 steak. How much did he spend in all?

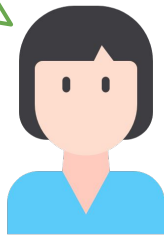
4. He has \$50. He bought 1 of each products below. How much does he have left?



# GROCERY CART

Help the people involved solve their problems. Find the answer to the following word problems. Write your complete solution.

I bought 4 soda bottles for \$2 each and has \$2 leftover. How much money did I start with?

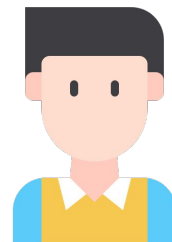


1.



2.

I take \$30 to buy 5 products that cost \$6 each. How much money has left for me?



# THE STORE KEEPER

Help Abby store the products on the shelf. Solve each problem and write your answer.

1.

I bought 8 crates of pineapples. Each crate contains 7 pineapples. I want to display the pineapples on 7 shelves. How many pineapples will be on each shelf?



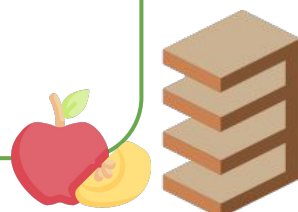
2.

I bought 4 crates of watermelons. Each crate contains 3 watermelons. I want to display the watermelons on 2 shelves. How many watermelons will be on each shelf?



3.

I bought 5 crates of apples. Each crate contains 10 apples. I want to display the apples on 5 shelves. How many apples will be on each shelf?



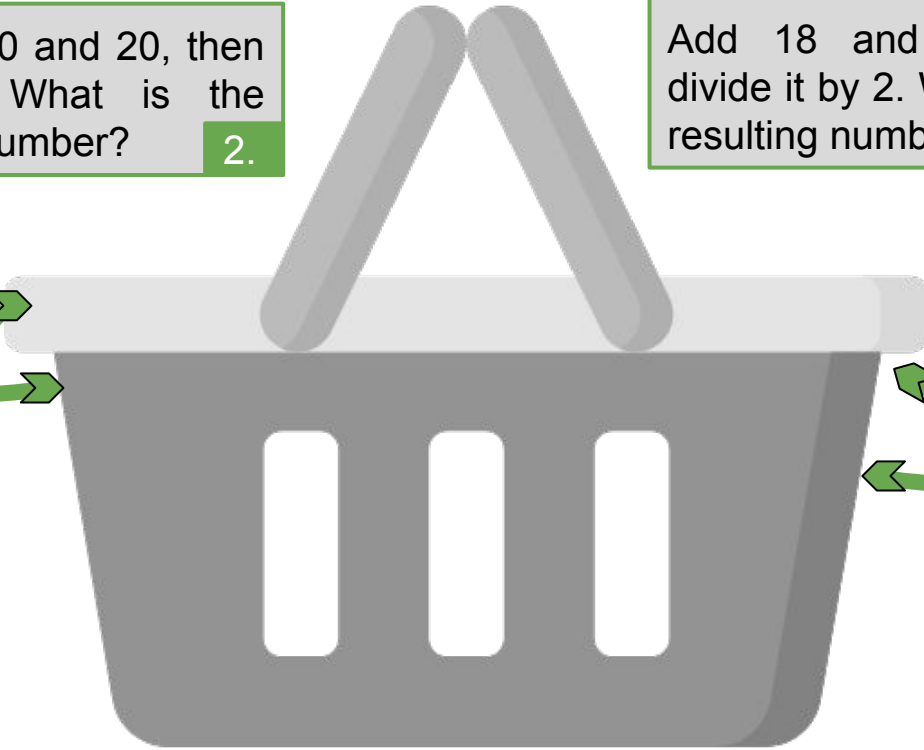


# NECESSITIES

Identify the Johnson family's necessities! Perform the following operation below. Cut and paste the product with the correct answer on the shopping basket.

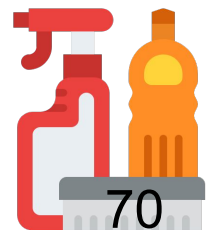
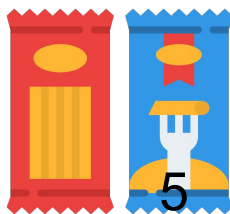
Subtract 50 and 20, then add 40. What is the resulting number? **2.**

Add 18 and 28, then divide it by 2. What is the resulting number? **3.**



Multiply 9 and 4, then subtract 20. What is the resulting number? **1.**

Subtract 70 and 20, then divide it by 10. What is the resulting number? **4.**

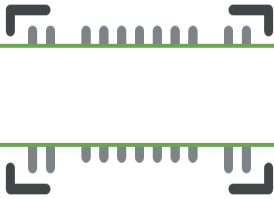


# BARCODE

Identify whether the products can be properly scanned. Write **APPROVE** if the given is correct, likewise **DISAPPROVE** if not.

1.

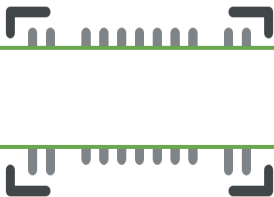
$$(8 \times 9) - 5 = 57$$



Write your solution here:

2.

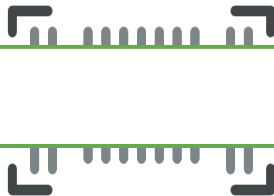
$$(10 + 70) / 8 = 10$$



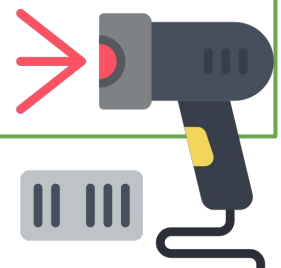
Write your solution here:

3.

$$(81 / 9) \times 9 = 91$$



Write your solution here:



# SUPERMARKET COUPONS

Hurry, grab your coupons now! There is a number provided in each coupon below. Identify and arrive with the number indicated using your own two-step problem solving manner.



1.  
100

2.  
125

3.  
63



4.  
80



# THE BIGGER, THE BETTER?

Help Arizona decide which products will she going to buy. Is it the bigger or the smaller one? Solve the following given then compare your result. Which has a larger value? Enclosed your answer using a box.

1.

5 packs of 3-pc cookies and 2 milk drinks **versus** 6 packs of 2-pc cupcakes and 2 orange juice.

2.

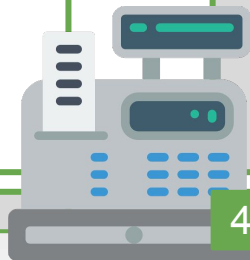
6 dozens of fresh white eggs and 4 boxes of corn flour **versus** 7 sets of fresh 8- pc brown eggs and 5 boxes of almond flour.

3.

10 packs of potato chips that cost \$ 4 each and 4 small packs of mixed nuts that cost \$ 7 per pack **versus** 9 packs of nachos that cost \$ 6 each and a pair of cashew nuts that cost \$15 each.

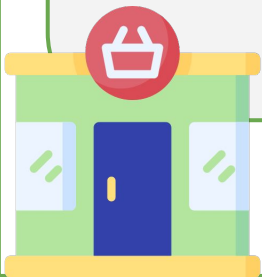
4.

Bundle 1: 12 pcs of \$3-snack plus 8 pcs of \$2-juice drink **versus** Bundle 2: 10 pcs of \$4-snack plus 9 pcs of \$3 milk drink.



# MY OWN STORE

Start your own store by providing your own products (word problems). Make at least 2 then provide your solution and answer.





# ANSWER GUIDE

## Activity 1

1. Read the problem carefully until you decide the step to do.
2. Reread the problem if necessary.
3. Work through the first step.
4. Look at the important information in the problem and turn the words into operation.
5. The optional step: draw images if you want to better understand the problem.

## Activity 2

- |         |         |
|---------|---------|
| 1. \$4  | 3. \$23 |
| 2. \$21 | 4. \$29 |

## Activity 3

- |         |      |
|---------|------|
| 1. \$10 | 2. 0 |
|---------|------|

## Activity 4

- |                 |                  |              |
|-----------------|------------------|--------------|
| 1. 8 pineapples | 2. 6 watermelons | 3. 10 apples |
|-----------------|------------------|--------------|

## Activity 5

- |       |       |
|-------|-------|
| 1. 16 | 3. 23 |
| 2. 70 | 4. 5  |



# ANSWER GUIDE

## Activity 6

1. DISAPPROVE
2. APPROVE
3. DISAPPROVE

## Activity 7

Answers may vary.

## Activity 8

- |   |   |
|---|---|
| 1. $(5 \times 3) + 2 = 17$<br>$(6 \times 2) + 2 = 14$<br>17 is greater than 14.                         | 2. $(6 \times 12) + 14 = 76$<br>$(7 \times 8) + 5 = 61$<br>76 is greater than 61.                       |
| 3. $(10 \times 4) + (4 \times 7) = 68$<br>$(9 \times 6) + (15 \times 2) = 84$<br>84 is greater than 68. | 4. $(12 \times 3) + (8 \times 2) = 52$<br>$(10 \times 4) + (9 \times 3) = 67$<br>67 is greater than 52. |

## Activity 9

Answers may vary.

## Activity 10

Answers may vary.





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