

Solving routine and non-routine problems involving division of decimals, mixed decimals, and whole numbers including money using appropriate problem solving strategies and tools



“What animal has the biggest brain?”

To find out, answer the question that has a corresponding letter to the answer.



1

2

3

4

5

H - 12.35

L - 352.7

E - 35,270

A - 0.09

W - 90

O - 1.235

1) $9 \div 0.10$

2) $0.1235 \div 0.01$

3) $9 \div 100$

4) $3527 \div 10$

5) $35.27 \div 0.001$



$$\begin{array}{r} 76.[] \\ 1.2 \overline{) 91.44} \end{array}$$



$$\begin{array}{r} 3.[] \\ 4.35 \overline{) 13.92} \end{array}$$



23.[]

$$0.49 \overline{) 11.515}$$



$$\begin{array}{r} 8.[] \\ 0.8 \overline{) 6.48} \end{array}$$



2.[]

$$5.14 \overline{) 13.878}$$



Do you want to get high
grades?

What will you do to get higher
grades?



“What animal has the biggest brain?”

To find out, answer the question that has a corresponding letter to the answer.



Denver and Richard are studying at Bulihan Elementary School. They compared their average scores in Mathematics after three grading periods.

Grading Period	Denver	Richard
1 st	88.38	88.75
2 nd	87.13	86.75
3 rd	85.88	86.88

- ❖ What was Denver's rating in the first grading?
- ❖ What was Richard's rate in the first grading?
- ❖ Who performed better in the first grading?
- ❖ What was Denver's rating in the second grading? Richard's rating?
- ❖ Who worked harder in the second grading?
- ❖ Who worked hard in the third grading?
- ❖ What will you do to find the average?
- ❖ What will you add?
- ❖ What else will you do?
- ❖ What operations are involve?
- ❖ How will you write the correct equation?
- ❖ What operation will you perform first? Last?
- ❖ What's the answer?
- ❖ Do you want to do what Denver and Richard are doing?





GROUP ACTIVITY



Teacher Precy bought a TV set for ₱13 905.00. After paying a down payment of ₱1 500.00, she agreed to pay the rest in 5 monthly installments. How much was her monthly installment fee?

1) Understand the problem.

What is asked?

What is/are the hidden questions?

What are the given facts?

2) Plan.

What are the operations to solve the problem?

Write an equation.

3) Solve.

4) State the complete answer.

GROUP 1 - ACT OUT

Fatima bought 3.75 kilograms of tilapia. She gave the seller ₱500.00 and she got a change of ₱267.50. How much is a kilo of tilapia.



GROUP 2 - ACT OUT



A pizza chef can make one pizza in 52.3 seconds. How many pizzas can the pizza chef make in 418.4 seconds?

GROUP 3 - ACT OUT



Albert's scores in Mathematics are as follows: 87.3, 85.0, 93.3, 84.6. What is his average score?

GROUP 4 - ACT OUT



Lea walks 2.3 km on Monday, 1.9 km on Tuesday, 2.6 km on Wednesday, 3.2 km on Thursday and 3.5 km on Friday. What is the average distance she walked in 5 days?

GROUP 5 - ACT OUT

MINUTE-TO-WIN-IT



Solve each problem. Label your answer.

1. A box containing pingpong balls weighs 67.50 grams. Each ball weighs 2.5 grams. How many pingpong balls are there in the box?
2. A rope is 70.8 meters long. How many 5.9-meter pieces can be cut from it?
3. There are 45 pupils who will equally share the expenses for a bus trip from Tagaytay Residence Inn to SM Dasmariñas amounting to ₱1 462.50. How much will each pay?
4. Sabrina bought 7 notebooks and she gave the sales clerk 4-20 peso bills. How much is each notebook if she received a change of ₱15.25?
5. Mrs. Del Mundo bought eggs for ₱386.75. If eggs cost ₱55.25 per dozen, how many dozen did she buy?

Pair Activity (Think-Pair-Share)



Marcela saved ₱5.25 a day. When he counted her money, she found out that she had ₱73.50. How many days did it take her to save that amount?

Pair Activity (Think-Pair-Share)



A carpenter agreed to make 2 tables for ₱840.50 each, 25 desks for ₱105.75 each, and 5 cabinets for ₱550 each. The materials cost him ₱12 340. What different questions can you ask to complete the problem? Solve each.



We can solve problems following these steps:

1. Understand the problem.

- a. What is asked?
- b. What is/are the hidden questions?
- c. What are the given facts?

2. Plan.

- a. What are the operations to solve the problem?
- b. Write an equation.

3. Solve.

4. State the complete answer.

We can also solve problems using different strategies like think-pair-share, drawing, acting out, and others.

Solve the following problems.




1. Cindy has 3.75 kilograms of hamburger. She is making hamburgers with 0.25 kilograms of hamburger each. How many hamburgers can she make?
2. Ken has 1.71 meters of string in 52.3 seconds. He cut the string into 0.19 meter lengths. How many pieces does he have?
3. Three friends sold 135 sampaguita garlands at ₱5.75 each. They share equally their earnings for that day. How much did each receive?
4. Bulihan Elementary School conducts a feeding program yearly. They feed 30 pupils each day and in a week they spent ₱3,487.50. How much did they spend for each pupil in a week?
5. The Boy Scout Troops of Bulihan Elementary School had their 3 day camping at Silang. Their total expenses for food and transportation is ₱2860.00. How much did each of the 8 members share for the expenses?

Solve the following problems. Label your answers.



1. Patrick and Christian repaired a broken rattan bed and were paid ₱1 128.00. If Patrick worked for 8.5 hours and Christian for 7.5 hours, how much were they paid per hour?
2. The barangay officials of Barangay San Gabriel received 150 sacks of rice weighing 50 kilogram each. Three hundred fifty kilograms were distributed to the flood victims for the barangay. The rest were repacked in plastic bags of 2.5 kilograms each to be distributed to the street children. How many street children received a bag of rice?



Solving multi-step routine problems involving division and any of other operations of decimals, mixed decimals and whole numbers including money using appropriate problem solving strategies and tools



$$10 \overline{) 638}$$



$$100 \overline{) 457}$$



$$10 \overline{) 79}$$



$$1000 \overline{) 437}$$



$$100 \overline{) 784}$$



$$7 \overline{) 28.7}$$



$$9 \overline{) 58.5}$$



$$6 \overline{) 4.80}$$



$$6 \overline{) 1.38}$$



$$8 \overline{) 7.28}$$



At the DiviMall, 3 handkerchief sell for P 56.25. The same kind of handkerchief sells at P 186.00 per dozen at Portal Mall. How much cheaper does a handkerchief sell at Portal Mall?

What is asked?
What are given?
What are the hidden questions?
What process will I use?
What is the number sentence?
What is the answer?
Why do we need to compare prices?
Is it important to save money? Why?



THINK PAIR SHARE



Transportation expenses of P 172.80 for 16 cub scouts and P 220.50 for 18 boy scouts were shared equally by all concerned. How much more did each boy scout share than each cub scout?

THINK PAIR SHARE



Jimmy's 25¢ coins amount to P 8.00. His 10¢ coins amount to P12.00. How many more 10¢ coins than 25¢ coins does Jimmy have?



A carpenter agreed to make 2 tables for ₱1681, 25 desks for ₱2634.75, and 5 cabinets for ₱1100. How much does 1 table, 10 desks and 3 cabinets cost?



Fatima and Lyka are practicing for a race. Fatima swam 11 laps with an average of 27.02 seconds per lap. Lyka swam 12 laps with an average of 20.5 seconds per lap. How much did it take Fatima to swim 11 laps than Lyka who swim 12 laps?

MS. Q & A



Donna needs 2.5 meters of ribbon to make flowerettes. One flowerettes uses five decimeters of ribbon. How much money will she get if she sells each flowerette for P10?

Solve the following problems. Label your answers.



1. Patrick and Christian repaired a broken rattan bed and were paid ₱1 128.00. If Patrick worked for 8.5 hours and Christian for 7.5 hours, how much were they paid per hour?
2. The barangay officials of Barangay San Gabriel received 150 sacks of rice weighing 50 kilogram each. Three hundred fifty kilograms were distributed to the flood victims for the barangay. The rest were repacked in plastic bags of 2.5 kilograms each to be distributed to the street children. How many street children received a bag of rice?



3. Rita bought 12 bananas for P18.00 and sold them at P2.50 each. How much profit did she get for each banana?