

Planning a Trip

By Grace Yn

The Cruz cousins are excited. Tita Mercy promised them a trip to Hong Kong next summer.

“Who will be in our group?” asked Tita Aleli.

“I’ll count. I’ll start with Tita Linda and Tito Rameng, together with cousins Len and Alvin,” said Chris.

“And then there’s Tita Aleli and cousins John, Peter, and you, Chris,” continued Len.

“Ate Baby and Kuya Rodel and their two kids,” counted Chris some more.

“Tito Alex, Tita Salvie, and Alexa will surely join us. That’s it!” said Tita Aleli.

“Don’t forget to include me in your head count,” said Tita Mercy.

“Oh, boy, this is going to be one big reunion for the family. Can you imagine a group of sixteen on tour?” gushed Len.

“Let’s start saving up for this trip,” suggested Tita Linda as she takes out a piece of paper to write down the budget computation.

“There is a special discount promo for airplane fares. A two-way trip now costs about P6 285.00 each,” Tita Mercy said.

“That would mean P6 285.00 times 16,” said Tita Linda.

“We would need P100 560 for the airplane fares. How much do you think would hotel accommodations cost?” asked Tita Aleli.

“We can probably go for the HK\$385-per-night rooms, with two





occupants per room,” suggested Tita Mercy.

“All right, then, Len and Chris, why don’t you apply your math skills and compute for our projected expenses as well as the individual amount to save for?” instructed Tita Linda.

“Let’s do it, Len! There are 16 of us, so we need eight rooms at HK\$385 per room per night for four nights,” started Chris.

“This sounds like our math problems in school,” said Len.

$$385 \times 8 \times 4 = n$$

$$\begin{array}{r} 385 \\ \times 8 \\ \hline 3\ 080 \end{array}$$

$$3\ 080 \times 4 \text{ is } 12\ 320$$

“How much would that be in pesos?” asked Tita Linda.

“Using the current conversion rate of about P6.00 to a Hong Kong dollar that would be . . .”

$$\begin{array}{r} 12\ 320 \\ \times 6 \\ \hline 73\ 920 \end{array}$$

“If we sum up all the plane fare and taxes and the hotel accommodation, we would have a total of

$$\begin{array}{r} 100\ 560 \\ + 73\ 920 \\ \hline 174\ 480 \end{array}$$

“I’ll take care of P35 000.00 of the total expenses,” offered Tita Mercy. “So, Chris and Len, how much would be the share of each person now?”

“Wow! Let’s see. We subtract 35 000 from the total expenses, leaving us with

$$\begin{array}{r} 174\,480 \\ - 35\,000 \\ \hline 139\,480, \end{array} \text{ computed Chris.}$$

“Then divide that amount by sixteen people to get the individual share,” instructed Len.

$$\begin{array}{r} 8717.5 \\ 16 \overline{)13948} \\ \underline{128} \\ 114 \\ \underline{112} \\ 28 \\ \underline{16} \\ 120 \\ \underline{112} \\ 8 \\ \underline{8} \\ 0 \\ \hline x \end{array}$$



“Great! At least we have a ballpark figure,” enthused Tita Linda.

“Don’t forget to save extra for the tour and pocket money,” reminded Tita Aleli.



Try This!

I. Solve the following:

1. $15\,364 + 18\,426 - 10\,412 = n$
2. $365 \times 145 - 16\,251 = n$
3. $5\,082 \div 22 + 1\,379 - 801 = n$
4. $10\,000 \times 276 \div 12 = n$
5. $364\,198 + 10\,423 + 17\,855 - 32\,019 = n$
6. $2\,496 \times 798 - 8\,968 = n$
7. $1\,719 \div 3 + (32 + 1\,680) = n$

II. Write an equation for each statement, then solve.

1. Take away 798 from the product of 245 and 42.
2. The sum of 4 701 and 9 735, divided by 12 gives what number?
3. What number do you multiply to the difference of 352 and 75 to give a product of 6 371?
4. How much more is 876 than the sum of 213 and 340?
5. If the divisor is 65 and the quotient is 72, what is the dividend?

III. Determine how to solve each problem. Which operations are you going to use to solve the following problems?

1. I read N pages of the book on Monday, M pages on Tuesday and K pages on Wednesday. On the average, how many pages did I read per day?
2. Last year, Mr. Tan sold N pesos worth of goods. This is M times as much as what he sold this year. How much was he able to sell this year?
3. Man's first landing on the moon was in N year. Jen was born M years later. How old will Jen be on year K ?

4. Dante can type N words per minute. How many words can he type in an hour?
5. In a certain test, Peter got a deduction of N , M , K and L in parts 1, 2, 3 and 4 respectively. If his score is X points, how many points was the test?

IV. Solve the following word problems.

1. A farm lot is 26 m long and 15 m wide. How big is this farm?
2. The Hindenburg was powered by four 1 100 horsepower engines, giving it a maximum speed of 135 kph. If it has logged in 3 240 km, how many hours has it been traveling?
3. A light year is the distance light travels in a year. Light moves at 299 792 km per second. How far does light travel in 1 minute?
4. Uranus' diameter at the equator measures 51 118 km. Earth's diameter at the equator is 38 362 km shorter. And Saturn's diameter is 107 780 km longer than the Earth's. What is the Saturn's diameter?
5. If Jupiter has a diameter of 143 884 km, how much longer is its diameter compared to Saturn's?

ANSWERS:

I.

2. 23 378
3. 36 674
4. 809
5. 230 000
6. 360 457
7. 1 982 840
8. 2 285

II.

1. $245 \times 42 - 798 = n$ $n = 9\,492$
2. $(4\,701 + 9\,735) \div 12 = n$ $n = 1\,203$
3. $(352 - 75) \times n = 6\,371$ $n = 23$
4. $876 - (213 + 340) = n$ $n = 323$
5. $n \div 65 = 72$ $n = 4680$

III.

1. $(N + M + K) \div 3$
2. $(N \div M)$
3. $K - (N + M)$
4. $N \times 60$
5. $X + N + M + K + L$

IV.

1. 390 m^2
2. 24 hours
3. 1 798 750 km
4. 120 536 km
5. 23 348 km