

Confucian Tai Shing Primary School

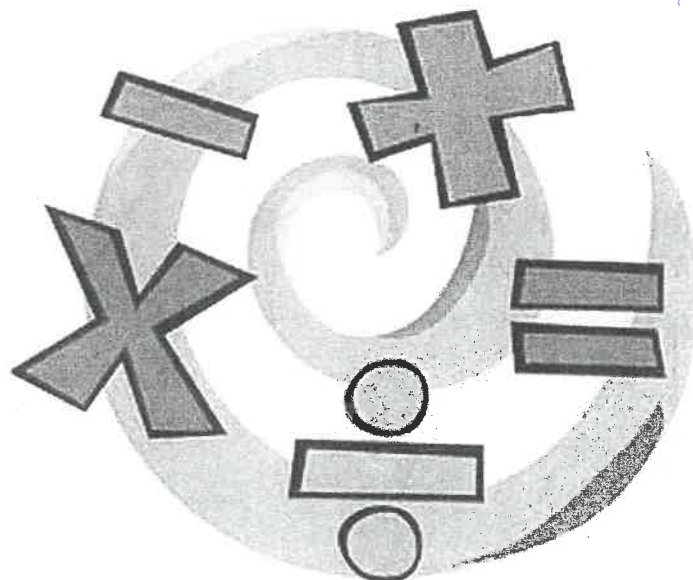
2022-2023 1st Term



Seen.

Mathematics Quality Assignment

(Multiplication 4N1 ☀)



Name: Yip Hay Yin (16)

Class: 4J

(A) Calculate the following questions.

Learning focus: Reviewing (溫習) two / three-digit number (兩/三位數).
multiplying (乘) single digit number (一位數).

1. $20 \times 4 = 80$ ✓

2. $600 \times 8 = 4800$ ✓

20 is a multiplicand. 被乘數

4 is a multiplier. 乘數

The product is 積

80 ✓

600 is a multiplicand ✓

8 is a multiplier ✓

The product is

4800 ✓

3. $5 \times 43 = 215$ ✓

4. $729 \times 7 = 5103$ ✓

5. $150 \times 5 = 750$ ✓

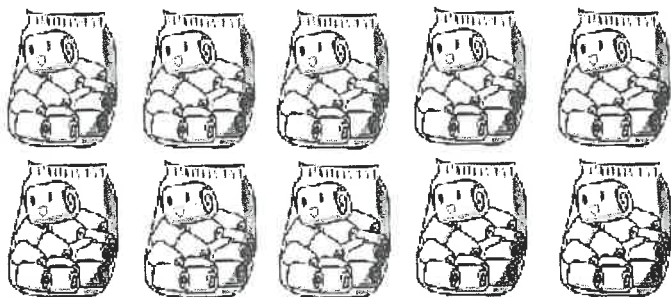
6. $101 \times 9 = 909$ ✓

(B) Calculate the following questions.

Learning focus: Calculating a two-digit number (兩位數) multiplies by a two digit-number in column form (直式).

7. There are 13 steamed buns (饅頭) in every packet. I bought 10 packets of steamed buns. How many steamed buns are there altogether?

Align the place values (對齊位值)



H	T	U	
	1	3	00
×	1	0	00
	1	3	0

13 is a multiplicand. ✓

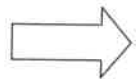
10 is a multiplier. ✓

1	3	0
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130 is the product. ✓

8. H T U

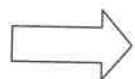
		2	1
×		3	2
<hr/>			
		3	0



	H	T	U
		2	1
×		3	2
<hr/>			
	6	3	0

1. Calculate
21 x 30 first.

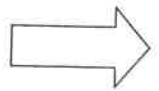
	H	T	U
		2	1
×		3	2
<hr/>			
	6	3	0
			2
<hr/>			



	H	T	U
		2	1
×		3	2
<hr/>			
	6	3	0
		4	2
<hr/>			

2. Then calculate
21 x 2.

3. Calculate the product



	H	T	U
		2	1
×		3	2
<hr/>			
	6	3	0
		4	2
<hr/>			
	6	7	2

9.

H T U

T digit reaches hundred and carries to H digit

$$\begin{array}{r} \\ \times 43 \\ \hline 960 \end{array}$$

H T U
2 4
U digit reaches ten and carries to T digit

$$\begin{array}{r} \\ \times 43 \\ \hline 960 \\ 72 \\ \hline 1032 \end{array}$$

1. First, add 0

3. Calculate 20×40 and carrying

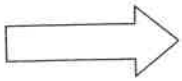
2. Calculate 4×40

5. Calculate 20×3 and carrying

4. Calculate 4×3 and carrying

Th H T U
2 4

$$\begin{array}{r} \\ \times 43 \\ \hline 960 \\ 72 \\ \hline 1032 \end{array}$$



Pay attention to carrying
進位

6. Calculate the product

10. Th H T U

4 9

$$\begin{array}{r} \\ \times 564 \\ \hline 2940 \\ 196 \\ 3136 \\ \hline 3136 \end{array}$$

11. Th H T U

6 8

$$\begin{array}{r} \\ \times 575 \\ \hline 4760 \\ 340 \\ 5100 \\ \hline 5100 \end{array}$$

Pay attention to multiple carrying

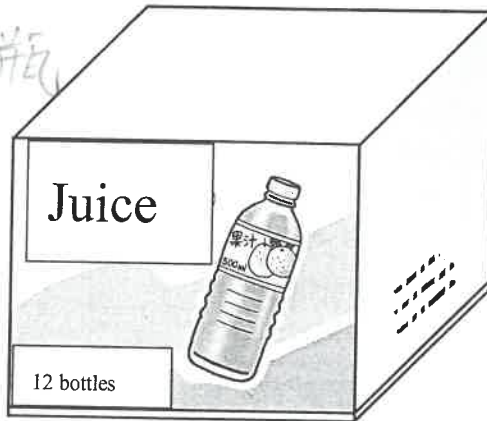
(C) Calculate the following questions.

Learning focus: Calculating two-digit number multiplies three-digit number (三位數) in column form.

12. There are 12 bottles of juice in each box and the capacity (容量) of each bottle is 500ml. How many milliliters (毫升) of juice are there in each box?

↑
每瓶果汁 500ml

↓
每盒有多少ml 果汁?



1盒 = 500ml × 12瓶
(每瓶)

方法一:

$$500 \times 12$$

當成 5 × 12 計，
再補 "00"

方法二:

×	5	0	0	
		1	2	
5	0	0	0	

1. First, calculate 500×10
2. Then, calculate 500×2
3. Calculate the product

×	5	0	0	
		1	2	
5	0	0	0	
1	0	0	0	
6	0	0	0	

13. $\begin{matrix} 10 & & & & & \\ \text{Th} & \text{Th} & \text{H} & \text{T} & \text{U} & \\ & & 4 & 0 & 2 & \end{matrix}$ $\begin{matrix} 10 & & & & & \\ \text{Th} & \text{Th} & \text{H} & \text{T} & \text{U} & \\ & & 4 & 0 & 2 & \end{matrix}$

\times $\begin{matrix} & & & 5 & 4 & \\ & & 1 & & & \\ \hline 2 & 0 & 1 & 0 & 0 & \end{matrix}$ \rightarrow \times $\begin{matrix} & & & 5 & 4 & \\ & & 1 & & & \\ \hline 2 & 0 & 1 & 0 & 0 & \\ & 1 & 6 & 0 & 8 & \\ \hline 2 & 1 & 7 & 0 & 8 & \end{matrix}$

4. Calculate 400×50
5. Pay attention to carrying

2. Calculate 2×50 and 0×50
3. Pay attention to carrying

6. Calculate 2×4 , 0×4 and 400×4
7. Pay attention to carrying

8. Calculate the product

14.

15.

$\begin{matrix} & & 5 & 6 & 7 & \\ & & & & & \\ \times & & 5 & 8 & 3 & \\ \hline 4 & 5 & 3 & 6 & 0 & \\ & 1 & 7 & 0 & 1 & \\ \hline 4 & 7 & 0 & 6 & 1 & \end{matrix}$

$\begin{matrix} & & & 9 & 4 & 9 & \\ & & & & & & \\ \times & & 2 & 5 & 6 & 8 & \\ \hline 5 & 6 & 9 & 4 & 0 & \\ & 7 & 5 & 9 & 2 & \\ \hline 6 & 4 & 5 & 3 & 2 & \end{matrix}$

Pay attention to carrying

16.

$$\begin{array}{r}
 \\
 \\
 \times \\
 \hline
 2188,0 \\
 1094 \\
 \hline
 22974
 \end{array}$$

17.

$$\begin{array}{r}
 \\
 \\
 \times \\
 \hline
 63200 \\
 3950 \\
 \hline
 67150
 \end{array}$$

18. Quiz:

$$\boxed{9098} \times \boxed{11} =$$

The greatest (最大的) three-digit even number (雙數) times (乘) the

smallest (最小的) two-digit odd number (單數) equals to 10978.

(D) Solve the following word problems and show your working.

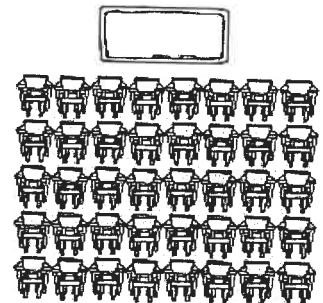
Learning focus: Solving problems (應用題) by using multiplication.

19. There are 26 classrooms in a school and 40 desks in each classroom.

How many desks are there in the school?

$$\begin{array}{l}
 26 \times 40 \\
 = 1040
 \end{array}$$

There are 1040 desks in the school.



20. (a) There are 24 classes in Tai Tung School and 29 students in each class.

How many students are there in total (總共)?

$$29 \times 24 = 696$$

$$\begin{array}{r} 29 \\ \times 24 \\ \hline 116 \\ + 580 \\ \hline 696 \end{array}$$

∴ There are 696 students in total.



(b) An autumn trip (秋季旅行) will be organized by Tai Tung School. 13 coaches (旅遊車) will be hired (租用) for transportation and each coach can accommodate (容納) 55 students. Are the 13 coaches enough (足夠) for accommodating all students?

$$55 \times 13 = 715$$

$$\begin{array}{r} 55 \\ \times 13 \\ \hline 165 \\ + 550 \\ \hline 715 \end{array}$$

∴ The 13 coaches are enough for accommodating all students.

21. From July 1st, 2021 to December 31st, 2022, John saves (儲蓄) \$15 every day.

How much does he save in total?

$$549 \times 15 = 8235$$

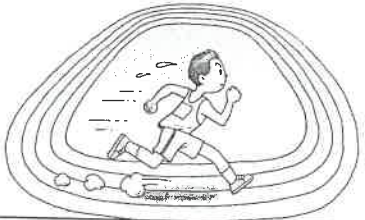
$$\begin{array}{r} 549 \\ \times 15 \\ \hline 2745 \\ + 5490 \\ \hline 8235 \end{array}$$

∴ He saved \$8235 in total.

(E) Advanced question

22. Mr. Chan ran 12 laps (圈) on a standardized Athletic track (標準運動場跑道).

How many meters did he run?

Thinking process One standardized Athletic track = 400 meters. ✓	
Show your working 400×12 ✓ = 4800 ✓	$\begin{array}{r} 12 \\ \times 400 \\ \hline 4800 \end{array}$ $\begin{array}{r} 400 \\ \times 12 \\ \hline 4000 \\ + 800 \\ \hline 4800 \end{array}$
∴ He ran 4800 meters. ✓	

(F) Challenging question

23. Design a word problem related to multiplication and solve it with steps.

An orange is 162g, a watermelon is 23 times of orange. What is the weight of the watermelon? ✓

162×23 ✓	
= 3726 ✓	$\begin{array}{r} 162 \\ \times 23 \\ \hline 3240 \\ + 486 \\ \hline 3726 \end{array}$
∴ The <u>watermelon</u> is 3726g. weight of the	

Marks: 23 / 23

Summary:

1. Multiplicand \times multiplier = product.

2. When drafting a column form,

(a) Align the value positions.

(b) When calculating a column form of a two-digit number multiplies a two-digit number, the multiplier can be split into a whole ten and a one digit number. Then applies multiplications separately. Finally, add up the products to get the answer.

(c) For column form of a three-digit number multiplying a two-digit number, the multiplier can be split into a whole ten and a one digit number. Then applies multiplications separately. Finally, add up the products to get the answer.

(d) Pay attention to carrying.

Assessments:

Self-assessment:

After studying this chapter,

- I can identify multiplicand, multiplier and product.
- I can utilize column form to calculate multiplicands and align the digits.
- I can pay attention to the carryings.
- I can memorize the multiplication table.
- I calculate carefully. (Work)
- I learned with effort. (Attitude)
- I check the steps carefully. (Ability)

I have learnt that align the digits.

Peer assessment: Good work. You can calculate all questions accurately.

Parents' Feedback:

- | | |
|---|--|
| <input type="checkbox"/> Able to work independently
(能獨立完成課業) | <input checked="" type="checkbox"/> Finish assignments only with
guidance (須指導才能完成課業) |
| <input checked="" type="checkbox"/> Neat writings (字體端正) | <input type="checkbox"/> Sloppy writings (字體草率) |
| <input checked="" type="checkbox"/> Tidy assignment (課業整潔) | <input type="checkbox"/> Pay attention to tidiness |
| <input checked="" type="checkbox"/> Complete assignment seriously
(認真完成課業) | (要注意整潔) |
| | <input type="checkbox"/> More effort required (仍須努力) |
- Other comments (其他意見): Need to check the steps carefully.

Teacher's Feedback:

- | | |
|--|--|
| <input checked="" type="checkbox"/> Able to master the learning objectives of the unit | <input type="checkbox"/> Unable to master some learning objectives of the unit |
| <input type="checkbox"/> Identify angles correctly | <input type="checkbox"/> Failed to identify angles |
| <input checked="" type="checkbox"/> Neat writings | <input type="checkbox"/> Sloppy writings |
| <input checked="" type="checkbox"/> Tidy assignment | <input type="checkbox"/> Pay attention to tidiness |
| <input checked="" type="checkbox"/> Completed assignment according to instructions | <input type="checkbox"/> Be more careful in reading the question |

-
- | | |
|---|---|
| <input checked="" type="checkbox"/> Excellent | <input type="checkbox"/> Good |
| <input type="checkbox"/> Satisfactory | <input type="checkbox"/> Improvement needed |

Other comments: Excellent work! Well done!

The End