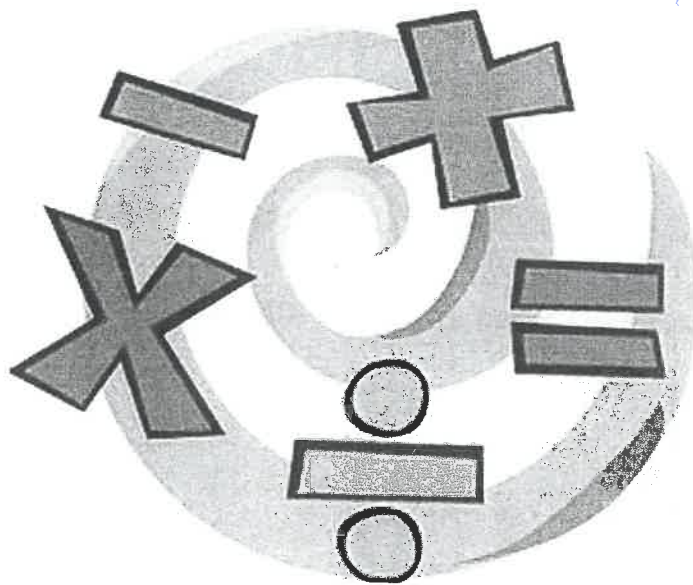Confucian Tai Shing Primary School

2022-2023    1st Term

# Mathematics Quality Assignment

# (Multiplication 4N1✿)

Name: _____Tiger_____ ( 10 )    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__ ✓

   20 is a multiplicand.

   4 is a multiplier.

   The product is

   __80__. ✓

2. $600 \times 8 =$ __4800__ ✓

   600 is a __multiplicand__

   8 is a __multiplier__. ✓

   The product is

   __4800__. ✓

3. $5 \times 43 =$ __215__ ✓

4. $729 \times 7 =$ __5103__ ✓
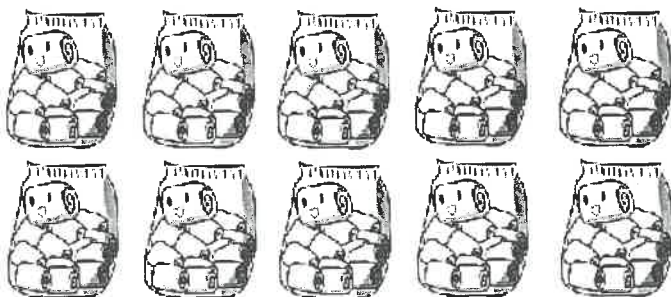
5. $150 \times$ __5__ $= 750$ ✓

6. __109__ $\times 9 = 909$ ✗ ( 101 )

(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
  ×  1 0
  -------
  1 3 0
```
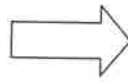
13 is a multiplicand.

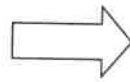10 is a multiplier.

130 is the product.

8.

| H | T | U |
|---|---|---|
| | 2 | 1 |
| × | 3 | 2 |
| | 3 | 0 |

1. Calculate 21 x 30 first.

→

| H | T | U |
|---|---|---|
| | 2 | 1 |
| × | 3 | 2 |
| 6 | 3 | 0 |

→

| H | T | U |
|---|---|---|
| | 2 | 1 |
| × | 3 | 2 |
| 6 | 3 | 0 |
| | | 2 |

2. Then calculate 21 x 2.

→

| H | T | U |
|---|---|---|
| | 2 | 1 |
| × | 3 | 2 |
| 6 | 3 | 0 |
| | 4 | 2 |

3. Calculate the product

→
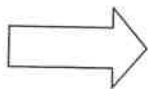
| H | T | U |
|---|---|---|
| | 2 | 1 |
| × | 3 | 2 |
| 6 | 3 | 0 |
| | 4 | 2 |
| 6 | 7 | 2 |

9.

**T digit reaches hundred and carries to H digit** (cloud)

H   T   U

2   4

× 4   3

9   6   0

**U digit reaches ten and carries to T digit** (cloud)

H   T   U

2   4

× 4   3

9   6   0

7   2

1. First, add 0

2. Calculate 4 x 40

3. Calculate 20 x 40 and carrying

5. Calculate 20 x 3 and carrying

4. Calculate 4 x 3 and carrying

Th   H   T   U

2   4

× 4   3

9   6   0

7   2

1   0   3   2

**Pay attention to carrying** (cloud)

6. Calculate the product

10.

Th   H   T   U

4   9

× 6   4

2   9   4   0

1   9   6

3   1   3   6

**Pay attention to multiple carrying** (cloud)

11.

Th   H   T   U

6   8

× 7   5

4   7   6   0

3   4   0

5   1   0   0

(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 ?



Juice

12 bottles
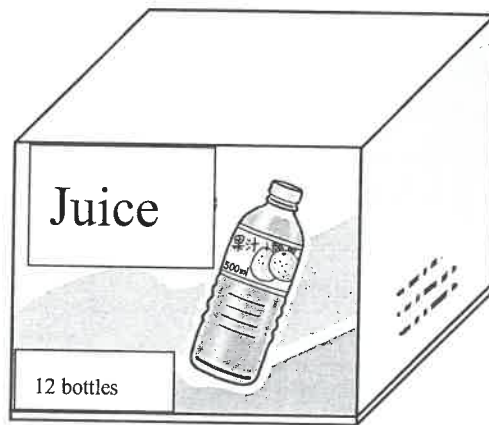
```
        5   0   0
   ×        1   2
   ─────────────────
    5   0   0   0
```

→

1. First, calculate
   500 x 10

2. Then, calculate
   500 x 2

3. Calculate the
   product

```
        5   0   0
   ×        1   2
   ─────────────────
    5   0   0   0
    1   0   0   0
    6   0   0   0
```

**13.**

| Th | Th | H | T | U |
|----|----|----|----|----|
|    |    | 4 | 0 | 2 |

×  |  | 5 | 4

| 2 | 0 | 1 | 0 | 0 |

1. Add 0

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

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

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

→

| 10 | | | | |
| Th | Th | H | T | U |
|    |    | 4 | 0 | 2 |

×  |  |  | 5 | 4

| 2 | 0 | 1 | 0 | 0 |
|   | 1 | 6 | 0 | 8 |
| 2 | 1 | 7 | 0 | 8 |

8. Calculate the product

**14.**

|   | 5 | 6 | 7 |
|---|---|---|---|
| × |   | 8 | 3 |

| 4 | 5 | 3 | 6 | 0 |
|   | 1 | 7 | 0 | 1 |
| 4 | 7 | 0 | 6 | 1 |

Pay attention to carrying

**15.**

|   | 9 | 4 | 9 |
|---|---|---|---|
| × |   | 6 | 8 |

| 5 | 6 | 9 | 4 | 0 |
|   | 5 | 7 | 9 | 2 |
| 6 | 2 | 7 | 3 | 2 |

```
    9   4   9
×       6   8
  5 6   9   4   0
    7   5   9   2
6 4   5   3   2
```
✓

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**16.**

$$
\begin{array}{r}
5\ 4\ 7 \\
\times\quad 4\ 2 \\
\hline
2\,1\,8\,8\,0 \\
1\,0\,9\,4 \\
\hline
2\,2\,9\,7\,4\ \checkmark
\end{array}
$$

**17.**

$$
\begin{array}{r}
7\ 9\ 0 \\
\times\quad 8\ 5 \\
\hline
6\,3\,2\,0\,0 \\
3\,9\,5\,0 \\
\hline
6\,7\,1\,5\,0\ \checkmark
\end{array}
$$

**18. Quiz:**   $998 \times 11$

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.

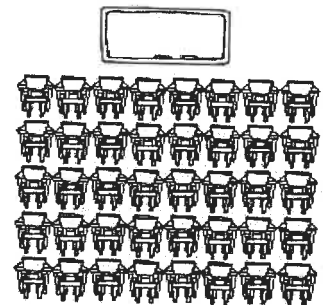Learning focus: Solving problems (應用題) by using multiplication.

**19.** There are <u>26</u> classrooms in a school and 40 desks in each classroom. How many desks are there in the school?

$26 \times 40$
$= 1040$

∴ 1040 desks are there in the school.

$$
\begin{array}{r}
4\ 0 \\
\times\ 2\ 6 \\
\hline
8\,0\,0 \\
2\,4\,0 \\
\hline
1\,0\,4\,0
\end{array}
$$

∴ 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)?

24 × 29

= 723 × (616) ✓

(616) in total

∴ There are (723) students.

24
× 29
————
480
243
————
723

(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 × 13

= 715

The 13 coaches are enough for 715 students.

55
× 13
————
550
165
————
715

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

How much does he save in total?

549 × 15

= 8235

∴ He saves 8235 in total.

549
× 15
————
5490
2745
————
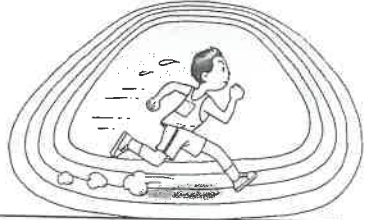8235

(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 | $\begin{array}{r} 400 \\ \times\ 12 \\ \hline 4000 \\ 800 \\ \hline 4800 \end{array}$ |
|---|---|
| Show your working | $400 \times 12$ <br> $= 4800$ <br><br> ∴ He ran 4800 meters. $\begin{array}{r} 400 \\ \times\ 1.2 \\ \hline 4000 \\ 800 \\ \hline 4800 \end{array}$ |

(F) Challenging question

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

A School has 40 classrooms, each classroom has 15 students, how many students in the whole school?

*are there* (are there) ✓

$40 \times 15$ ✓

$= 600$ ✓

There are

∴ 600 students in the whole. school.

$\begin{array}{r} 40 \\ \times\ 15 \\ \hline 400 \\ 200 \\ \hline 600 \end{array}$

(school) ✓

Marks: 20 /23

9.26

Summary:

1. Multiplicand × ___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___2___ and a

        (3)

        ___2___digit number. Then applies multiplications separately. Finally,

        (2)

        add up the products to get the answer.

    (c)    For column form of a three-digit number multiplying a two-digit

        (4)

        number, the multiplier can be split into a whole ___3___ and a

        ___2___digit number. Then applies multiplications separately. Finally,

        (4)

        add up the products to get the answer.

    (d)    Pay attention to ___product___.

        (multiplications)

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# 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 ___I can memorize the multiplication table___.

Peer assessment: ___Good work! You can be more careful.___ ✓
_____

Parents' Feedback:

☐ Able to work independently

  （能獨立完成課業）

☑ Neat writings （字體端正）

☑ Tidy assignment （課業整潔）

☑ Complete assignment seriously

  （認真完成課業）

☑ Other comments （其他意見）: ___Please hurry up and___
___keep trying.___

☑ Finish assignments only with

  guidance （須指導才能完成課業）

☐ Sloppy writings （字體草率）

☐ Pay attention to tidiness

  （要注意整潔）

☐ More effort required （仍須努力）

___Liu Yue Hong___

Teacher's Feedback:

☑ Able to master the learning objectives of the unit

☐ Identify angles correctly

☑ Neat writings

☑ Tidy assignment

☑ Completed assignment according to instructions

☐ Unable to master some learning objectives of the unit

☐ Failed to identify angles

☐ Sloppy writings

☐ Pay attention to tidiness

☐ Be more careful in reading the question

----------------------------------------

☑ Excellent

☐ Satisfactory

☐ Good

☐ Improvement needed

☑ Other comments: _Good Job ! Keep on moving !_

The End