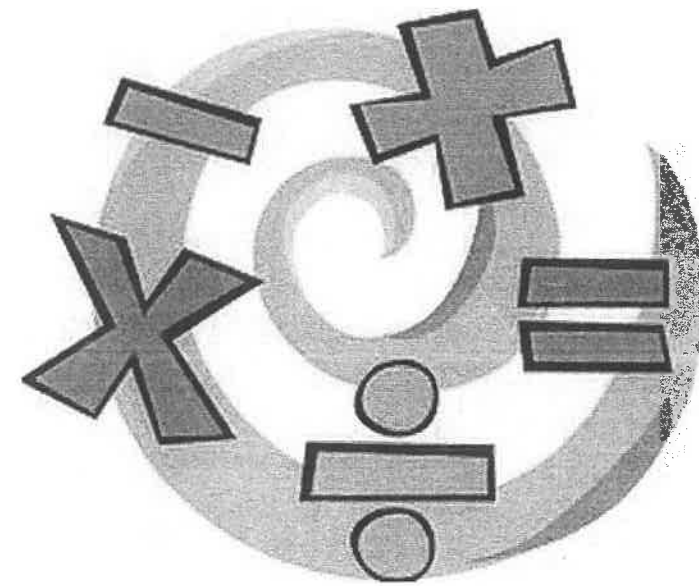Confucian Tai Shing Primary School
2021-2022 1st Term

Mathematics Quality Assignment
(Basic Multiplication 2N3 ✿)

Name: Natalie (4) Class: 2Joy

(A) Calculate the following questions.

Learning focus: Understanding repeated addition (加) and concept (概念) of multiplication (乘).

Online self-learning materials:

There are 3 dishes on a table, each dish has four pieces of cake. There are 12 pieces of cake in total (總共).

Shown as:

3 fours mean (意思是) adding up (連加) 4 by three times (3 次).

$$4 + 4 + 4 = 12$$

$$4 \times 3 = 12$$
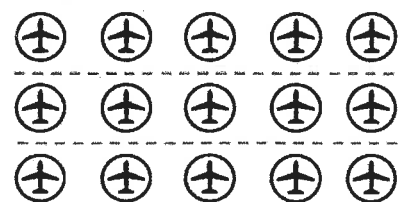
Multiplicand (被乘數)　　Multiplier (乘數)　　Product (積)

Write the answer in the ☐ or _____ .

1. Each row (行) has __5__ chessmen (棋子), there are __3__ rows.

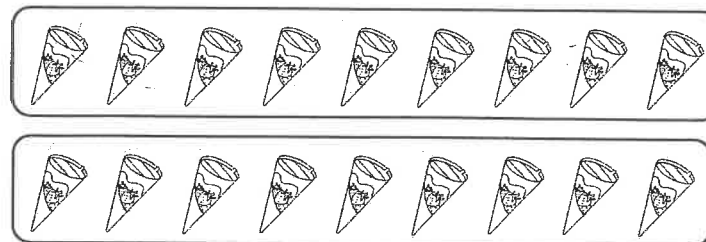   Addition: $5 + 5 + 5 = \boxed{15}$

   Multiplication: $5 \times 3 = \boxed{15}$

   It means __3__ fives.

2. Addition: $7 + 7 + 7 + 7 + 7 + 7 = \boxed{42}$

   Multiplication: $7 \times \boxed{6} = \boxed{42}$

   It means __6__ sevens.

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3.

   Addition: $\underline{9 + 9} = \underline{18}$

   Multiplication: $\underline{9 \times 2} = \underline{18}$

   It means __2__ nines.

4.
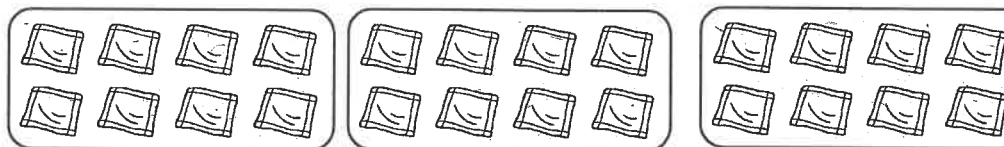
   Addition: $\underline{8 + 8 + 8} = \underline{24}$

   Multiplication: $\underline{8 \times 3} = \underline{24}$

   It means __3__ eights.

Quiz

5. ☆ + ☆ + ☆ + ☆ + ☆ + ☆ = 36.

   What is the value of ☆?

   ☆ = $\boxed{6}$

   ☆ × ? = 36
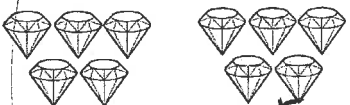
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(B) Calculate the following questions.

Learning focus: Showing (展示) the number of objects (物件) by multiplication.

Write the answer in the ☐ .

6.

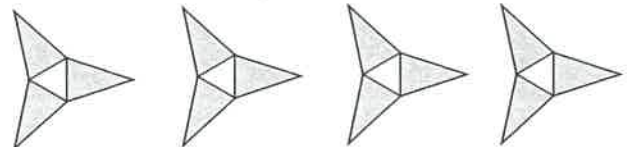Each group has __5__ pieces of diamond (寶石), there are __2__ groups.
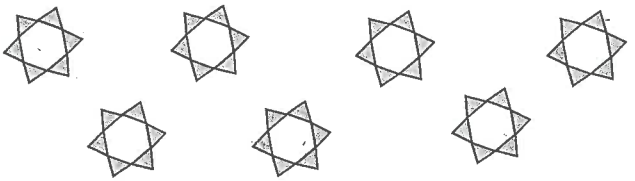
$5 \times 2 =$ ☐10, there are ☐10 pieces of diamond.

Numbers of piece in each group | No. of group

7.
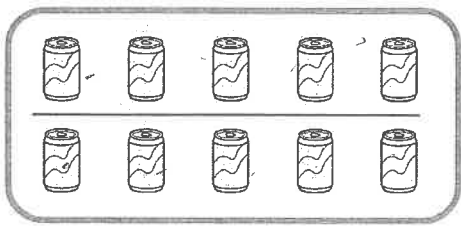
$2 \times$ ☐6 $=$ ☐12 , there are ☐12 pieces of diamond.

8.

☐10 $\times$ ☐4 $=$ ☐40 , there are ☐40 pieces of diamond.

9.

$3 \times$ ☐4 $=$ ☐12 , there are ☐12 coloured triangles (三角形).

10.

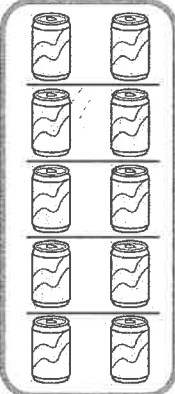$6 \times 7 = 42$, there are ☐42 coloured triangles.

(C) Write the answer in ☐ according to the pictures.

Learning focus: Knowing the product (積) remains (保持) the same when exchanging (互換) the two numbers (multiplicand (被乘數) and multiplier (乘數)).

11. (a)   (b)

Each row has 5 cans (罐) of coke, there are ☐10 cans of coke in 2 rows.
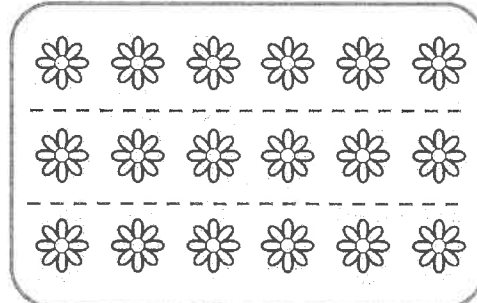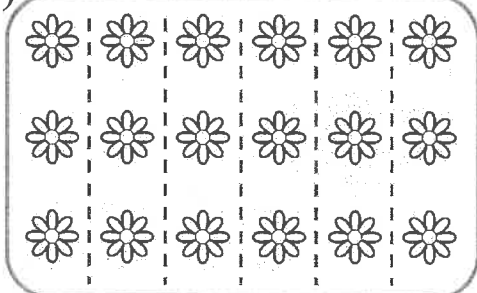
Each row has 2 cans of coke, there are ☐10 cans of coke in 5 rows.

$5 \times 2 =$ ☐10

$2 \times 5 =$ ☐10

(c) Both have the (same / different) number of cokes. (Circle the correct answer)

12. (a)   (b)

$6 \times$ ☐3 $=$ ☐18
There are ☐18 flowers.

$3 \times$ ☐6 $=$ ☐18
There are ☐18 flowers.
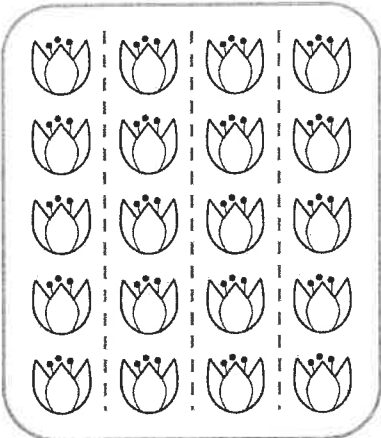
$6 \times$ ☐3 $= 18 = 3 \times$ ☐6

13. (a)

$5 \times \boxed{4} = \boxed{20}$

There are $\boxed{20}$ flowers.

(b)

$4 \times \boxed{5} = \boxed{20}$

There are $\boxed{20}$ flowers.
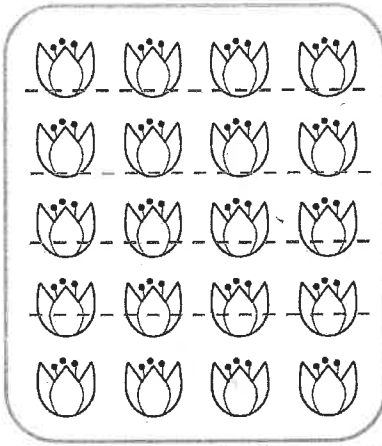
$5 \times \boxed{4} = 20 = 4 \times \boxed{5}$

From the results above, what do you find?

Based on your finding, finish the following questions.

14. $9 \times 3 = 3 \times \boxed{9}$

$= 27$

15. $8 \times 10 = 10 \times \boxed{8}$

$= 80$

16. $9 \times 5 = \boxed{5} \times \boxed{9}$

$= \boxed{45}$

17. $4 \times 6 = \boxed{6} \times \boxed{4}$

$= \boxed{24}$

Quiz

18. If 8 packs of snack cost the same price of 3 packs of fruit jelly, which (哪種) snack is it?

Answer: It is _bubble gum_

Happy Snack	
Bubble gum	… $3/pack
Marshmallow	… $9/pack
Fruit jelly	… $8/pack

(D) Solve word problems and show your working.

Learning focus: Solving problems by using multiplication.

19. Cherry saved $10 everyday starting from Wednesday. She got enough money to buy an album (相簿) until Saturday. How much does an album costs?

10×4
$= 40$
∴ An album costs $40.

$\begin{array}{r} 10 \\ \times\ 4 \\ \hline 40 \end{array}$

20. A packet of bread (一袋麵包) has 8 pieces and costs $12. How many pieces of bread in 3 packets?

8×3
$= 24$
∴ There are 24 pieces of bread in 3 packets.

$\begin{array}{r} 8 \\ \times\ 3 \\ \hline 24 \end{array}$

21. Mrs. Lam bought 4 boxes of half a dozen of eggs (半打雞蛋). How many eggs did she buy?

6×4
$= 24$
∴ She bought 24 eggs.

Buy 5 get 1 free

$2 each

22. Distance (距離) between two trees is 9 meters. A dog runs back and forth (來回) between these two trees twice (兩次). How many meters does it run?

9×4
$= 36$
∴ It runs 36 meters.

23. A ticket (門票) of an art museum (藝術館) for an adult (成人) is $10, for a child (小童) is $7. Peter, Ken and Mary bought child tickets, how much did they pay?

$$7 \times 3 \checkmark$$
$$= 21 \checkmark$$
∴ They paid $21.

24. There are 100 pieces of prism (柱體) in each box of blocks (積木). How many pieces of pyramid (錐體) are there in 5 boxes of blocks?

$$0 \times 5 \checkmark$$
$$= 0 \checkmark$$
∴ There is 0 piece of pyramid in 5 boxes of blocks. ✓

(E) Challenging Question.

25. Design a word problem of multiplication and show your working.

Question

A red ball costs $5, a white ball costs $6. Peter ~~wants to buy~~ 2 red balls. How much did he pay?

bought

Show your working

5 × 2
= 10
∴ He paid $10. ✓

Marks: 25 /25

19.11

Summary:

1. Multiplicand × __multiplier__ = __product__. ✓

2. Multiplicand is a number to be __added up__. ✓

3. The product remains __the same__ when exchanging the numbers ✓ (multiplicand and multiplier).

4. When solving word problems, multiplicand and multiplier need to be recognized correctly (正確辨認).

∴

Assessments:

Self-assessment:

After studying this chapter,

☑ I can identify multiplicand, multiplier and product.
☐ I can understand the exchanging property of multiplication.
☑ I can solve word problems related to multiplication.
☑ I calculate carefully. (Work)
☐ I learned with effort. (Attitude)
☐ I checked the steps carefully. (Ability)

I have learnt that multiplication is a convenient and smart way to calculate repeated additions. ✓

Peer assessment: Natalie's work is neat and tidy. She presented her calculations logically ✓

Parents' Feedback:

☐ Able to work independently
   (能獨立完成課業)

☑ Finish assignments only with guidance (須指導才能完成課業)

☐ Neat writings (字體端正)

☐ Sloppy writings (字體草率)

☐ Tidy assignment (課業整潔)

☐ Pay attention to tidiness (要注意整潔) ✓

☐ Complete assignment seriously (認真完成課業)

☑ More effort required (仍須努力)

☐ Other comments (其他意見): _____

_____.

Teacher's Feedback:

☑ Able to master the learning objectives of the unit

☐ Unable to master some learning objectives of the unit

☐ Identify angles correctly

☐ Failed to identify angles

☐ Neat writings

☐ Sloppy writings

☑ Tidy assignment

☐ Pay attention to tidiness

☑ Completed assignment according to instructions

☐ Be more careful in reading the question

☑ Excellent

☐ Good

☐ Satisfactory

☐ Improvement needed

☑ Other comments: The word problem designed was clear and creative

The End