

Confucian Tai Shing Primary School
2021-2022 Second Term



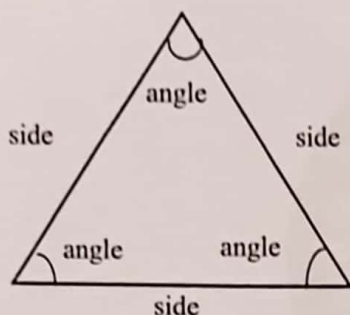
Mathematics Quality Assignment (Triangles 3S4☀)



Name: Cherry Lau (6) Class : 3J

(A) Observe the following shape and fill in the blanks.

Learning Objective : Learn about the basic properties of triangles.

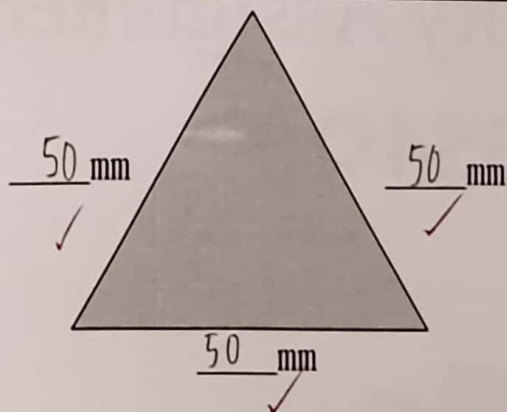


1. This is a triangle / . It has 3 / sides and 3 / angles.

(B) Measure the length of each side of the triangles below and fill in the blanks.

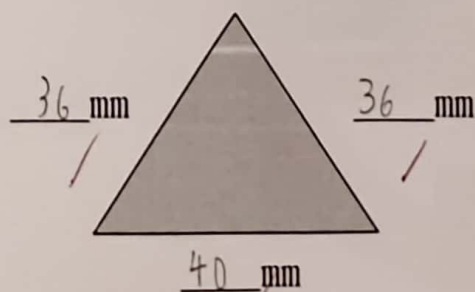
Learning Objective: Learn about different types of triangles.

2.



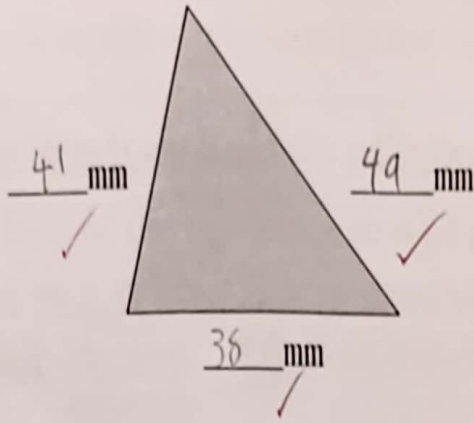
The above triangle has 3 / sides equal in length (長度相等). It is called an equilateral / triangle (等邊三角形).

3.



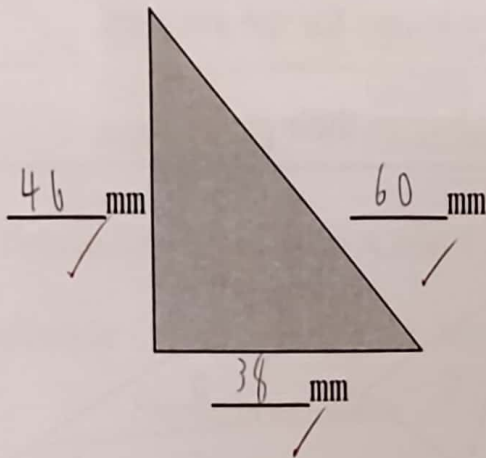
The above triangle has 2 / sides equal in length (長度相等). It is called an isosceles / triangle (等腰三角形).

4.



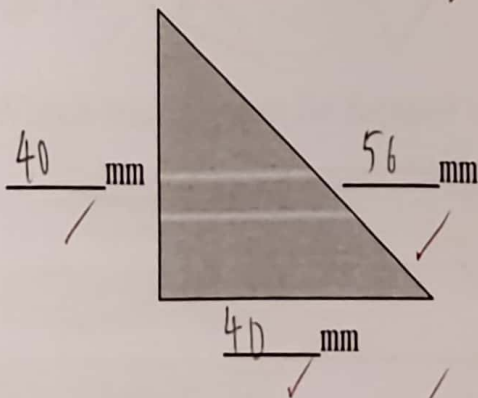
The above triangle with three sides different in length. It is called a scalene triangle. (不等邊 三角形) ✓

5.



The above triangle with three sides different in length, but it has 1 right angle (直角). It is called a right-angled triangle (直角 三角形) ✓

6.



The above triangle has 2 sides equal in length (長度相等) and 1 right angle (直角). It is called an / a isosceles right-angled triangle. (等腰直角 三角形) ✓

Quiz :

Are the following descriptions correct ? Put a "✓" in the brackets if it is correct.

If not, put a "✗".

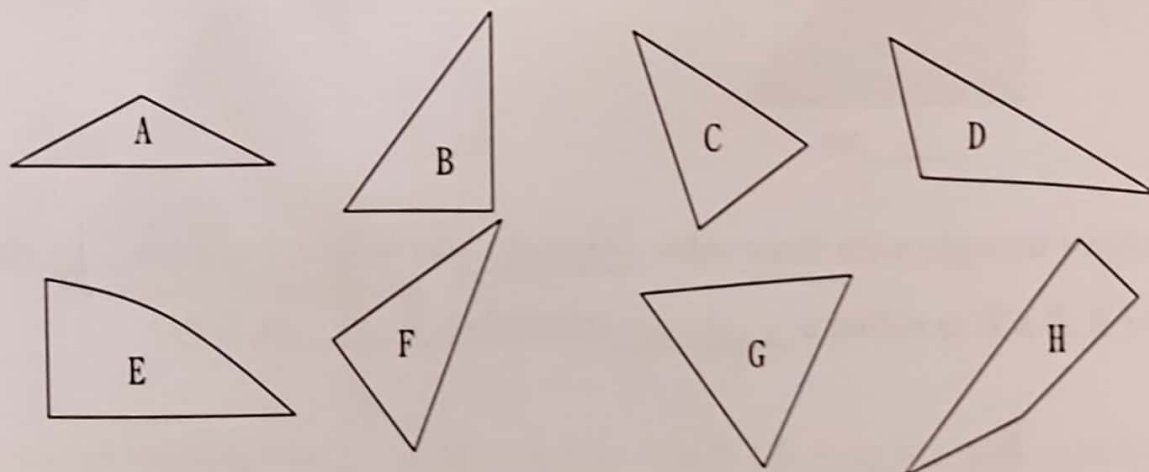
7. An isosceles triangle must not have a right angle (直角). (✗)

8. A triangle must not have 2 right angles. (✓)

9. An equilateral triangle (等邊三角形) has 3 acute angles (銳角). (✓)

(C) Look at the 2-D shapes below. Write all the letters for the answers.

Learning Objective : Sort the triangles according to their properties.



10. Right-angled triangle(s) (直角三角形) : B, F

11. Isosceles triangle(s) (等腰三角形) : A, G, C

12. Equilateral triangle(s) (等邊三角形) : G

(D) Blacken the circle next to the correct answer.

When we use geo-strips to make triangles, pay attention to the length and the properties of triangles.

Learning Objective : Use geo-strips (幾何條) to make triangles.

13. Which of the following sets of geo-strips can make an isosceles triangle (等腰三角形)? (You can choose more than one answer)

A.
 B.
 C.
 D.

14. Which of the following sets of geo-strips can make an equilateral triangle (等邊三角形)?

A.
 B.
 C.
 D.

(D) ✓

15. Yannie has 1 geo-strip A and 1 geo-strip B. She wants to make an equilateral triangle (等邊三角形). At least how many extra geo-strips does she need?

	<u>Number of geo-strip A</u>	<u>Number of geo-strip B</u>	
<input type="radio"/> A.	1	0	Geo-strip A
<input type="radio"/> B.	0	1	
<input type="radio"/> C.	1	1	Geo-strip B
<input checked="" type="radio"/> D.	2	0	

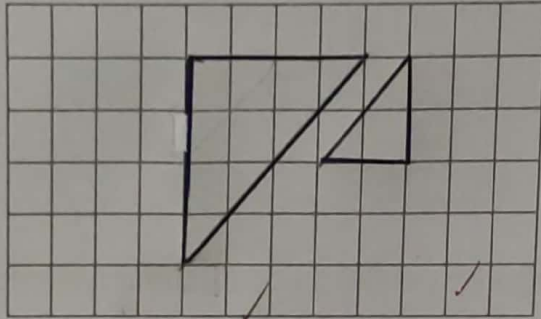
16. Which triangle can be formed by the following set of geo-strips?

- A. Equilateral triangle B. Isosceles triangle
 C. Scalene triangle D. cannot make a triangle

(E) Use a ruler to draw triangles by following instructions.

Learning Objective : Draw triangles.

17. Two right-angled triangles. (直角三角形)

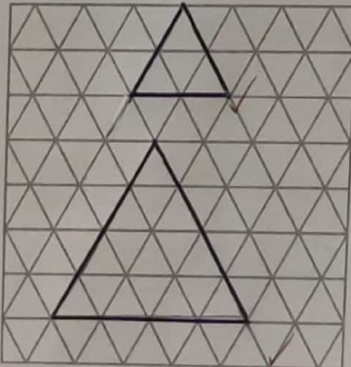


1. Draw triangles with a ruler.

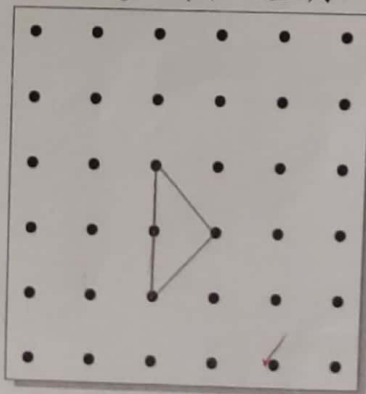
2. When we draw a triangle on a grid (方格紙), we need to start from a point of intersection (相交點) to another point of intersection (相交點).

3. When we draw a triangle on dotted paper (釘點紙), we need to start from a point to another point.

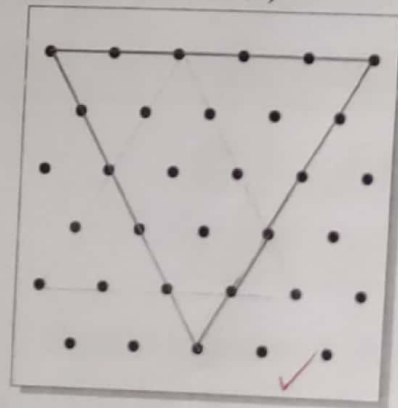
18. Two equilateral triangles with different sizes. (等邊三角形)



19. The smallest isosceles right-angled triangle. (等腰直角三角形)



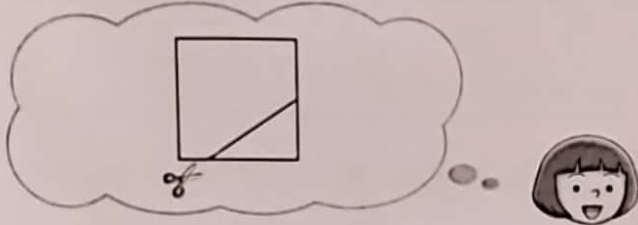
20. The biggest equilateral triangle. (等邊三角形)



(F) Follow the instructions. What shape can be made from a piece of square craft paper? Fill in the blanks.

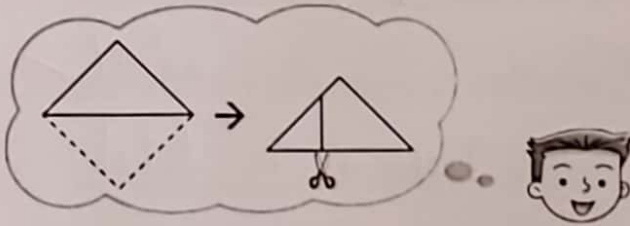
Learning Objective : Cut out triangles.

21.



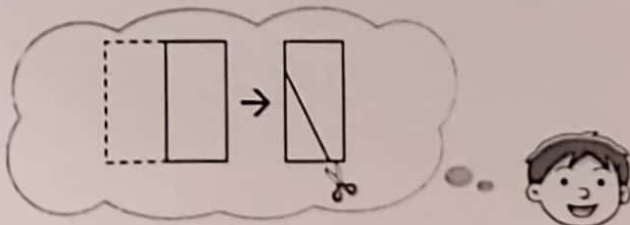
A right - angled triangle can be formed.

22.



An isosceles right - angled triangle can be formed.

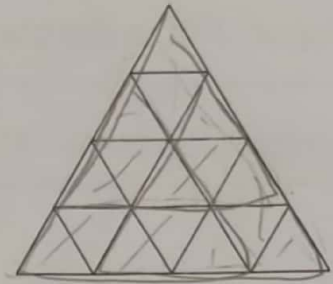
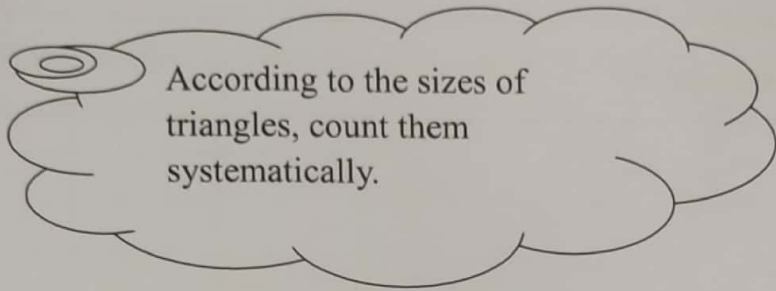
23.



An isosceles triangle can be formed.

(G) Challenge question.

24. How many triangles are there on the right ?



Thinking zone:

1st group : include 1 small triangle only. There are 16 in total.

2nd group : include 4 small triangles. There are 7 in total.

3rd group : include 9 small triangles. There are 3 in total.

4th group : include 16 small triangles. There is 1 in total.

$$7 + 3 = 10 + 16 = 26 + 1 = 27$$

There are 27 triangles in total.

Score: 23/24

25.2

Summary:

1. Triangles are 2-D shapes. All of them have 3 sides (邊) and 3 angles (角).
2. A triangle with three sides equal in length (長度相等) is called an equilateral triangle (等邊 三角形).
3. A triangle with two sides equal in length (長度相等) is called an isosceles triangle (等腰 三角形).
4. A triangle with three sides different in length (長度不相等) is called a scalene triangle (不等邊 三角形).
5. A triangle with a right angle is called a right-angled triangle (直角 三角形).
6. An isosceles triangle with a right angle is called an / a right-angled isosceles triangle (等腰直角 三角形).

Assessments:

Self-assessment:

After studying this chapter,

- I can understand the basic properties of triangles.
(我能認識三角形的基本特性)
- I can sort the triangles by their properties.
(我能按三角形的特性分類)
- I can use different methods to make triangles.
(我能利用不同的方法製作三角形)
- I read the questions carefully (Work). 我有小心看題目
- I learned with effort. (Attitude) 我有認真學習
- I checked the steps carefully. (Ability) 我有仔細檢查答案

I have learnt that ^{how to} use different methods to make triangles.

Peer assessment: good job ✓

Parents' Feedback:

- | | |
|---|---|
| <input checked="" type="checkbox"/> Able to work independently
(能獨立完成課業) | <input 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
(要注意整潔) |
| <input checked="" type="checkbox"/> Complete assignment seriously
(認真完成課業) | <input type="checkbox"/> 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

Neat writings

Tidy assignment

Completed assignment according to instructions

Use a ruler to draw triangles

Unable to master some learning objectives of the unit

Sloppy writings

Pay attention to tidiness

Be more careful in reading the question

Unable to use a ruler to draw triangles

 Excellent

Satisfactory

Good

Improvement needed

Other comments: You can sort the triangles according to the number of sides that are equal in length.

The End