

## Hong Kong Taoist Association Wun Tsuen School



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## P. 5 Measures

## Area of Parallelograms, Triangles and Trapeziums



## Objectives of the Lesson

- Enable students to understand and apply the formula for finding the area of parallelograms, triangles and trapeziums.


## GeoGebra Time

Area of Parallelogram

https://www.geogebra.org/classic/qktjmhky

Area of Triangle

https://www.geogebra.org/classic/kstmngvg

## Highlights of the Lesson

A. Using the same base but different height, find the area of parallelogram and triangle in the following table.

| Base (cm) | Height (cm) | Area of <br> parallelogram | Area of triangle |
| :---: | :---: | :---: | :---: |
|  | 2 |  |  |
|  | 3 |  |  |
| 10 | 4 |  |  |
| 10 | 5 |  |  |
| 10 | 6 |  |  |

From observation, the area of triangle is $\qquad$ of the area of parallelogram that with the same base and height
B. Estimate the area of triangle in the following table.
B. Estimate the area of triangle in the following table.

|  |  | Estimate |  |
| :---: | :---: | :---: | :---: |
| Base $(\mathrm{cm})$ | Height $(\mathrm{cm})$ |  |  |
| 8 | 2 |  |  |
| 8 | 3 |  |  |
| 8 | 4 |  |  |
| 8 | 5 |  |  |

C. Hypothesis "the area of triangle is $\qquad$ -


Triangle A is (equal to / not equal to ) Triangle B.

Triangle C is ( equal to / not equal to ) Triangle D

A parallelogram can be cut into $\qquad$ identical triangles.

The area of triangle is $\qquad$ of the area of parallelogram with the same base and height.

The area of parallelogram is Base $\times$ Height. (Mathematical expression)

So, the area of the triangle is $\qquad$ (Mathematical expression)

## Snapshots of the Lesson



## Other Resources of GeoGebra

## http://www.geogebra.org.hk



GeoGebra Institute of Hong Kong
Vision: To promote and support the use of GeoGebra and the development and sharing of its materials in Hong Kong, and to nurture collaboration between teachers, educators and researchers for a self-sustaining community of practice.
[1 Hosing Insitute: Department of Education Studies, Hong Kong Bapisist University


# P. 4 Number 

Mixed Operations - Bingo


## Objective of the lesson

* Applying the use of operators.
* Raise the interests in calculation by co-operation and competition.

Rules of the game:

* Need to use all the 4 numbers.
* Use " + ", " - ", " $\times$ ", or " $\div$ " to make a number statement.


## Rules of the game:

* If there have two " 0 ", one of them can be thrown again.
- If no one find the Bingo, the team which get more number correct is the winner.


# Hong Kong Taoist Association Wun Tsuen School 

Hong Kong Taoist Association Wun Isuen School 2018-2019 Mathematics
Maths Bingo Competition
2018-2019 Mathematics
Maths Bingo Competition 2

| Name : |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Class: |  |  |  | Date: |  |  |  |
| The dice' number |  | 8 |  |  |  |  |  |
|  | 2 | 8 | 9 | 12 | 13 | Numb Bingo(s) |  |
| $\square$ | 14 | 15 | 16 | 22 | 27 |  |  |
|  | 32 | 40 | 42 | 43 | 46 |  |  |
|  | 51 | 52 | 55 | 56 | 57 |  |  |
|  | 58 | 62 | 67 | 74 | 75 |  |  |
|  | Stat | cat |  |  |  | Answer | Checked |
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Name :
Class:


Number of Bingo(s) Found

| Number Statement | Answer | Checked |
| :---: | :---: | :---: |
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Reflection of the lesson

* Students were fully engaged in the lesson.


## P. 5 Shape and Space

3-D shapes - Nets of cubes


## Objectives of the Lesson

- Enable students to recognise the patterns of nets can fold into a cube.


## Highlights of the Lesson

A.) Try the following nets. Can these nets be folded into cubes? Put a " $\sqrt{\prime \prime}$ " in the brackets if it can or a " $x$ " if it cannot.


Observe the nets above again. Which pattern of nets can always be folded into cubes?


## Highlights of the Lesson

B.) Exploration on non 1-4-1 nets.

Please break the net (you can refer to the hint if it is given) and turn a right angle to form another shape of nets. Record your findings.
another shape of nets. Record your findings.

What can you discover?


## Highlights of the Lesson

C.) Exploration on non 1-4-1 nets back to 1-4-1 nets.

Please break the net (you can refer to the hint if it is given) and turn a right angle to form another shape of nets. Record your findings.



