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Dear Sir/Madam,

We are one of the major educational book publishers in Hong Kong specialised in the publication of textbooks on various subjects across the spectrum of the Hong Kong primary school curriculum.

We plan to publish the following textbooks, e-textbooks and launch a teaching website for the local primary school pupils and teachers namely "New Primary Mathematics 5C (English edition)"..

We would be grateful if you could grant us permission to reproduce the following photo as teaching material in the above items.

Description of the photo: Colour logo of Yau Tsim Mong District Council

Acknowledgements will be given to "Yau Tsim Mong District Council" when they are published.

In order to let you understand the purpose for using your logo photo, enclosed please find for your perusal the final layout with the positioning of your logo and the text.

Looking forward to hearing from you.

Yours sincerely,

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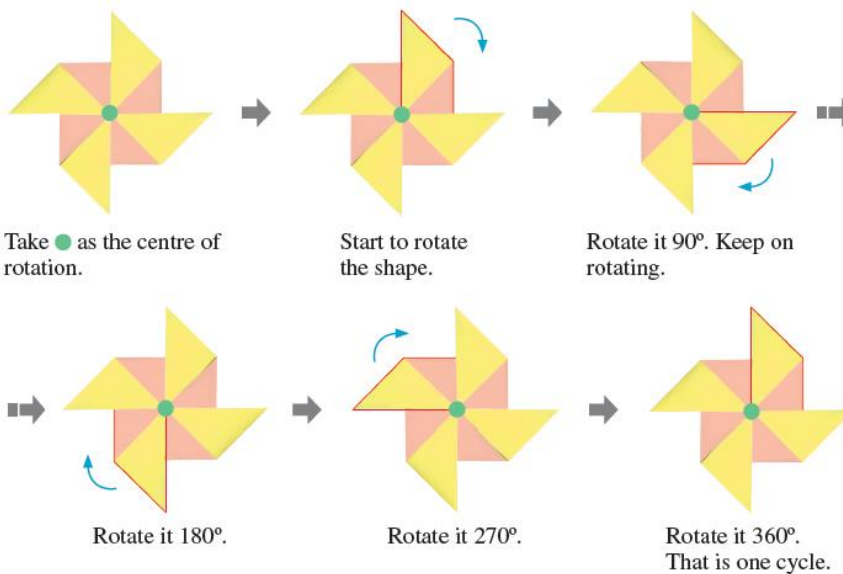
Enrichment topic

11 Rotational symmetry

1 New Territories tour

This windmill is so beautiful!

A Mum bought a windmill for Ada when they were visiting the Che Kung Temple.

Look at the way that the windmill rotates.

Take ● as the centre of rotation.

Start to rotate the shape.

Rotate it 90°. Keep on rotating.

Rotate it 180°.

Rotate it 270°.

Rotate it 360°. That is one cycle.

Write the answers in the ☐ **.**

① The windmill returns to its original position for every ☐ ° it rotates.

② The windmill matches the original shape for every ☐ ° it rotates.

③ When the windmill rotates one cycle (that is ☐ °), it matches the original shape for ☐ times.

When a shape rotates 360° around the centre of rotation, if it matches its original shape more than once, this shape is a rotationally symmetrical shape.

B Ada saw these District Council emblems on her way home.

When each of the following emblems rotates one cycle, how many times does it match the original shape? Write the answer in the ☐ .

①

Sha Tin District ☐

②

Yau Tsim Mong District ☐

③

Eastern District ☐

Do you know these district emblems?

Are these emblems rotationally symmetrical?

Classwork

Look at the shapes below. Complete the following.

A ○ ☐

B ○ ☐

C ○ ☐

D ○ ☐

E ○ ☐

F ○ ☐

① Is each of the shapes rotationally symmetrical? If so, put a ✓ in the ○ ; if not, put a ✗ in the ○ .

② Look at the rotationally symmetrical shapes above. When each of these shapes rotates one cycle, how many times does it match the original shape? Write the answer in the ☐ . Draw a • to show its centre of rotation.

5 C