

**These shapes are threaded on one long string that bends around a corner.
Draw a loop around the repeating unit.**



The string turns the corner here and keeps going.



Circle the sentence that says how you know that is the unit.

The same four shapes come again in the same order further along the string.

It is the group at the start of the string.

Write how many shapes are in the unit.

The bend in the string does not start the pattern again. Say why not.

Both of these lines are twelve shapes long.

Draw a loop around each unit. Then write how many shapes are in it.



Shapes in the unit _____



Shapes in the unit _____

The lines are the same length but the answers are not. Circle the sentence that says why.

How long the line is does not decide how long the unit is.

One line was built wrong.

Write how many whole units are in each line.

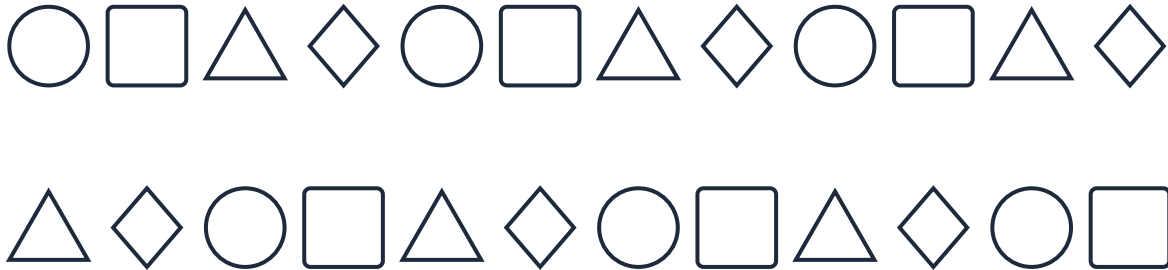
These four lines are in no particular order.

Put a tick on each line with a three shape unit. Draw a cross on each line with a four shape unit.



For each line, say where the same shapes start again.

**These two lines were built from the same unit.
One of them begins part way through it.**



Do they have the same repeating unit? Circle yes or no.

yes

no

Draw a loop around one whole unit in each line.

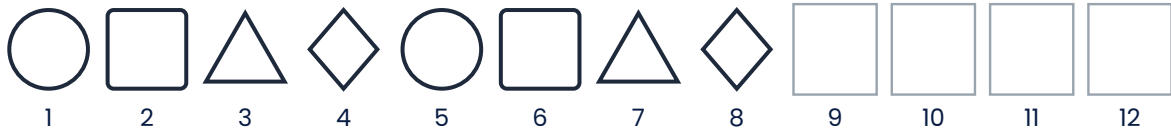
Circle the sentence that says how you could show a partner the units match.

Slide one line along under the other until the matching shapes sit together.

Count how many shapes are in each whole line.

This line was started but not finished.

The unit is four shapes long. The number under each shape says which place it is in.



Circle the shape that will be twelfth.

Choose from these.



Write how many whole units twelve shapes makes.

Put a tick on the shape that will be fifteenth.

Choose from these.



Say how you worked both of those out without drawing the rest of the line.