Make Patterns with 2D Shapes

4. Complete the patterns.

A.

| (blue pentagon) | (yellow pentagon) | (green diamond) | (blue pentagon) | (yellow pentagon) | | | | |

B.

| (orange pentagon) | (yellow pentagon) | (orange pentagon) | (yellow pentagon) | (orange pentagon) | | | | |

C.

| (green hexagon) | | (blue square) | (green hexagon) | (blue diamond) | | | | |

5. Match the patterns to the descriptions to find the odd one out.

A.

(red triangle, yellow diamond, blue triangle, red triangle, yellow diamond, blue triangle)

B.

triangle, square,
triangle, square,
pentagon

C.

(blue triangle, green pentagon, purple pentagon, blue triangle, green pentagon, purple pentagon)

D.

triangle, square,
pentagon, triangle,
square, pentagon

E.

triangle, pentagon,
pentagon, triangle,
pentagon, pentagon

6. Create a repeating pattern using the instructions below.

The completed pattern must have 12 shapes in total.

There must be 3 different shapes in the pattern.

There must be 6 rectangles in the completed pattern.

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4b. Zara and Sam are talking about the pattern below.

Zara: I think the twelfth shape will be a triangle.

Sam: I think the twelfth shape will be a circle.

Who is correct? Prove it.

5b. Hannah and Yusef are talking about a 3-step repeating pattern.

> The second shape is a blue square.
>
> The third shape is a green triangle.
>
> The first shape is a yellow pentagon.

Using the clues, draw the pattern so that it is 9 shapes long.

6b. Sammy says,

Sammy: My pattern is made with pentagons and hexagons.

Is he correct? Convince me.