Shape/number patterns

6 practice questions

1. A row grows from 2 to 4 to 6 counters. How many at the next stage?

The row gains 2 counters each time.

Answer: 8 counters.

2. A pattern has $5, 10$ and 15 tiles in its first three stages. How many in stage 4?

Add 5 again.

Answer: 20 tiles.

3. Continue: triangle, circle, triangle, circle. Name the next two shapes.

The two-shape unit repeats.

Answer: Triangle, circle.

4. Stage 1 has 4 tiles. Each next stage adds 3 tiles. How many tiles in stage 3?

Stage 2 has 7; stage 3 has 10.

Answer: 10 tiles.

5. Draw three stages starting with 1 dot and adding 2 dots each stage. Give the totals.

Add 2 dots to the previous stage; many neat layouts are possible.

Answer: $1, 3, 5$ dots.

6. A pattern goes square, square, circle, square, square, circle. Is it repeating or growing? Explain.

The same three-shape unit starts again; the unit itself does not gain objects.

Answer: Repeating.