

Extend a growing shape pattern

NAME	DATE	SCORE
		/ 10

1

The rows show stages 1, 2 and 3 of a pattern. Each stage adds the same number of dots. How many dots will stage 5 have?

Stage 1

Stage 2

Stage 3

2

Emma builds towers. Tower 1 has 4 blocks, tower 2 has 6, and tower 3 has 8. Each tower has the same number more blocks than the last. How many blocks will tower 5 have?

3

The rows show stages 1, 2 and 3 of a pattern. Each stage adds the same number of dots. Draw stage 4 and stage 5 below, one dot in each square.

Stage 1

Stage 2

Stage 3

Extend a growing shape pattern • Grade 1

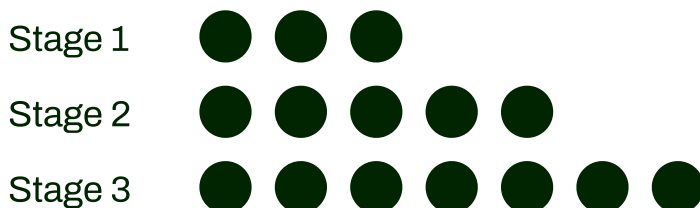
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4 Make the next stage with cubes.

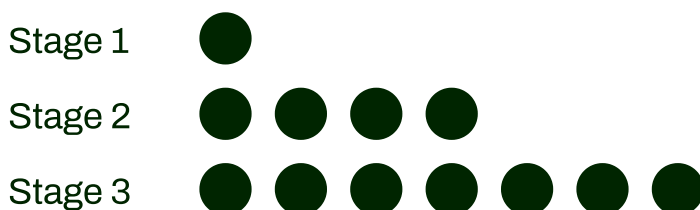
FOR THE ADULT

1. Give the child about 15 cubes. No cubes? Cut out the squares below.
2. Build stages 1, 2 and 3 in a row: 3, 5, 7 cubes, as in the picture.
3. Say: "Each stage grows the same way. Build stage 4."
4. Then ask: "How did you know how many?"

☐ Did it ☐ Not yet Stage 4 had: _____

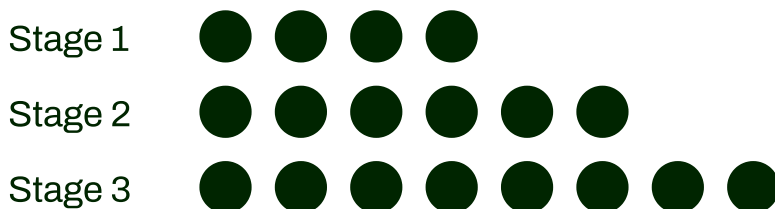


5 The rows show stages 1, 2 and 3 of a pattern. Each stage adds the same number of dots. How many dots will stage 5 have?

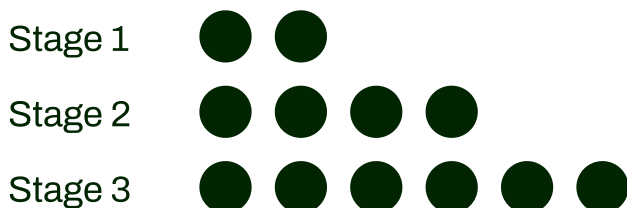


6 Row 1 has 2 chairs, row 2 has 3, and row 3 has 4. Each row has the same number more chairs than the last. How many chairs will row 5 have?

- 7** The rows show stages 1, 2 and 3 of a pattern. Each stage adds the same number of dots. Draw stage 4 and stage 5 below, one dot in each square.

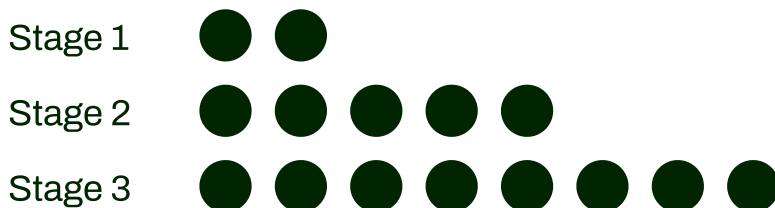


- 8** The rows show stages 1, 2 and 3 of a pattern. Each stage adds the same number of dots. How many dots will stage 5 have?



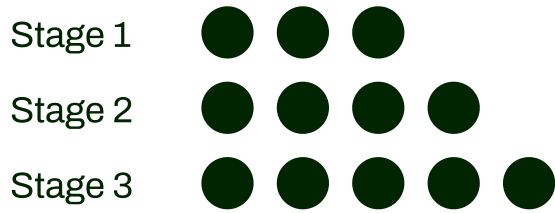
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- 9** The rows show stages 1, 2 and 3 of a pattern. Each stage adds the same number of dots. How many dots will stage 5 have?



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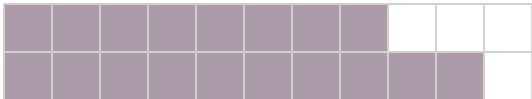
- 10** The rows show stages 1, 2 and 3 of a pattern. Each stage adds the same number of dots. How many dots will stage 5 have?



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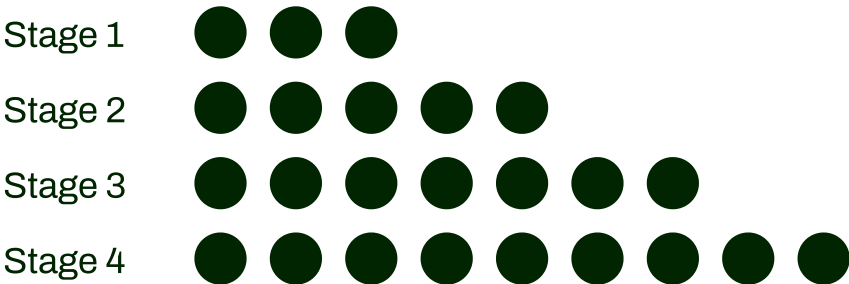
1	15	2	12
5	13	6	6
8	10	9	14
10	7		

3 A drawing



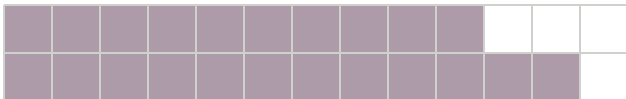
What counts as right: Top row (stage 4): 8 dots; bottom row (stage 5): 10 dots — 2 more each stage. Stage 5 with 9 dots (only 1 more), or the stages drawn the same, does not count.

4 Watched by the adult



What counts as right: Builds stage 4 with 9 cubes and says it grows by 2 each time. Copying stage 3, adding a different number of cubes, or building stage 5 (11 cubes) is Not yet.

7 A drawing



What counts as right: Top row (stage 4): 10 dots; bottom row (stage 5): 12 dots — 2 more each stage. Stage 5 with 11 dots (only 1 more), or the stages drawn the same, does not count.