Practice worksheet | Coordinates, patterns and graphs

Growing visual patterns

Name: _____ Date: _____

6 questions | 14 marks

1. For the square train, find stage 4. [2 marks]



Stage 1 Stage 2 Stage 3

2. For the square train, find stage 10. [2 marks]



Stage 1 Stage 2 Stage 3

3. A pattern follows $5n + 2$. Find stages 1 and 4. [2 marks]

4. Counts are 6,10,14,18 at stages 1,2,3,4 and keep rising by 4. Give a rule and stage 7. [3 marks]

5. Which rule matches 3,5,7,9 at stages 1,2,3,4: $2n + 1$ or $3n$? Explain. [2 marks]

6. Jai says the square train uses $4n$ sticks. Explain why this works at stage 1 but fails at stage 2. [3 marks]



Stage 1 Stage 2 Stage 3