Year 2 maths: Growing patterns (Medium)

Maths · Patterns and algebra
Level: Medium

Student: _____ Date: _____

Instructions
- There are 10 questions. Read each one carefully.
- Write your answers on this paper. Use the space under a question to work it out.
- A grown-up can read a question aloud — that's fine.
- The answers are at the end. Check them together when you have finished.

Questions

1. What is the rule? 33, 38, 43, 48

Circle one answer.

33 , **38** , **43** , **48**

○ **A** Add 1 ○ **B** Add 5 ○ **C** Add 10

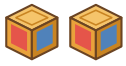
2. What number comes next? 7, 10, 13, 16, ___ Answer: _____

7 , **10** , **13** , **16** , ☐

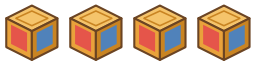
Working:

3. How many blocks will Step 4 have? Answer: _____

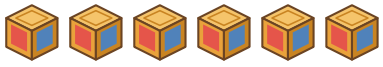
Step 1



Step 2



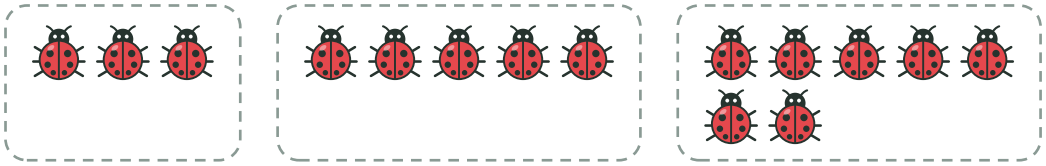
Step 3



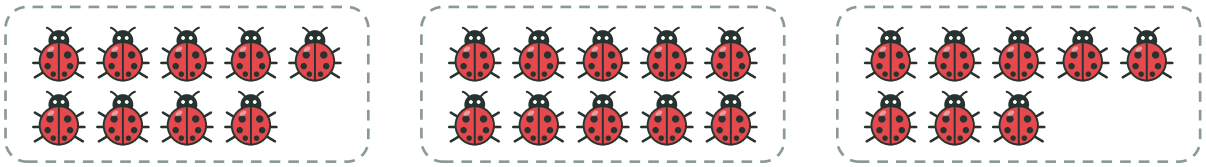
Working:

4. Which card comes next?

Circle one answer.



Card 1 **Card 2** **Card 3**



○ **A** ○ **B** ○ **C**

5. How many stars will Step 4 have?

Answer: _____ stars



Step 1 **Step 2** **Step 3**

Working:

6. What number is being added each time? 72, 75, 78, 81

Answer: _____

72 , **75** , **78** , **81**

Working:

7. This pattern goes backwards. 35, 32, 29, 26. Going backwards by how many?

Answer: _____

35 , **32** , **29** , **26**

Working:

8. What number comes next? 64, 60, 56, 52, ___ Answer:

64 , **60** , **56** , **52** , ☐

Working:

9. Fill in the next two numbers: 90, 85, 80, 75, ___, ___

90 , **85** , **80** , **75** , ☐ , ☐

10. Which pattern goes backwards by 2?

Circle one answer.

○ **A** 41, 39, 38, 36 ○ **B** 40, 38, 36, 34 ○ **C** 40, 30, 20, 10

○ **D** 34, 36, 38, 40

Answer key

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1. B — Add 5

33 to 38 is a jump of 5. Every jump is 5, so the rule is add 5.

2. 19

The pattern adds 3 each time. 16 + 3 = 19.

3. 8

2, 4, 6: each step has 2 more blocks. Step 4 has 6 + 2 = 8.

4. A

Each card has 2 more ladybugs than the card before: 3, 5, 7. The next card has 7 + 2 = 9.

5. 11 stars

5, 7, 9: each step has 2 more stars. Step 4 has 9 + 2 = 11.

6. 3

72 to 75 is a jump of 3. 75 to 78 and 78 to 81 are jumps of 3 too. 3 is added each time.

7. 3

35 to 32 is a jump back of 3, and so is every other jump. It goes backwards by 3.

8. 48

Every jump goes back 4. 52 − 4 = 48.

9. 70,65

The pattern takes away 5 each time: 75 − 5 = 70, then 70 − 5 = 65.

10. B — 40, 38, 36, 34

40, 38, 36, 34 takes away 2 every time. 34, 36, 38, 40 goes up by 2. 40, 30, 20, 10 goes back by 10. 41, 39, 38, 36 has jumps that are not all the same.