



Name _____ Class _____ Date _____

1 The sequence, **0, 1, 1, 2, 4, 7, 13...** is similar to the Fibonacci sequence. What are the **next three numbers**?

A 20, 33, 53
B 26, 50, 96
C 24, 44, 81
D 24, 37, 61

2 The house numbers on houses for a street are **102, 103, 108, 109, 114....** What are the **next three house numbers**?

A 115, 118, 119
B 115, 121, 122
C 115, 121, 129
D 115, 120, 121

3 A class takes a field trip to the zoo where they will watch a movie about animals. If the movie times are **10:15, 11:00, 11:45, 12:30**, etc. The theater likes there to be **15 minutes** between shows, how long is the movie?

4 On Halloween, Mrs. Spicer does **not** like a lot of candy left over. For the first hour, she hands out **two** pieces of candy. For each hour after that, she hands out **one piece more** than the previous hour. How many pieces of candy will she hand out in the fourth hour?

PREVIEW

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7

B moon
C star
D heart

A 14
B 15
C 16
D 17

9 Based on the shape shown, if the pattern continues for **one less block** on each row until the top row has one block, how many total blocks will there be altogether?

A 11
B 19
C 21
D 28

10 The volume of the cubes shown is **1 cm³, 8 cm³, and 27 cm³**. If this pattern continues, what would be the **volume of a cube that has sides 8 cm long**?

A 343 cm³
B 512 cm³
C 729 cm³
D 929 cm³



ANSWER KEY

The sequence, **0, 1, 1, 2, 4, 7, 13...** is similar to the Fibonacci sequence.

What are the **next three** numbers?

- A 20, 33, 53
- B 26, 50, 96
- C 24, 44, 81
- D 24, 37, 61

(C)

The house numbers on houses for a street are **102, 103, 108, 109, 114....**

What are the **next three** house numbers?

- A 115, 118, 119
- B 115, 121, 122
- C 115, 121, 129
- D 115, 120, 121

(d)

A class takes a field trip to the zoo where they will watch a movie about animals. If the movie times are **10:15, 11:00, 11:45, 12:30**, etc. **The theater likes there to be 15 minutes** between shows, how long is the movie?

- A 45 minutes
- C 22 minutes

(b)

On Halloween, Mrs. Spicer does **not** like a lot of candy left over. For the first hour, she hands out **two** pieces of candy. For each hour after that, she hands out **one piece more** than the previous hour. **How many pieces of candy will she hand out in the fourth hour?**

- A 3
- C 5

(C)



PREVIEW

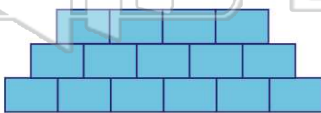
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- C star
- D heart

- B 15
- C 16
- D 17

Based on the shape shown, if the pattern continues for **one less block** on each row until the top row has one block, how many total blocks will there be altogether?

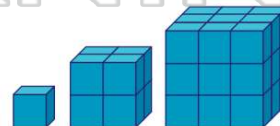
- A 11
- B 19
- C 21
- D 28



(C)

The volume of the cubes shown is **1 cm³, 8 cm³, and 27 cm³**. If this pattern continues, what would be the **volume** of a cube that has sides **8 cm** long?

- A 343 cm³
- B 512 cm³
- C 729 cm³
- D 929 cm³



(b)