

**Module 1**  
**Foundations**

**D**

# **v**math<sup>®</sup>

**Third Edition**

 **VOYAGER SOPRIS**  
LEARNING™



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# Foundations

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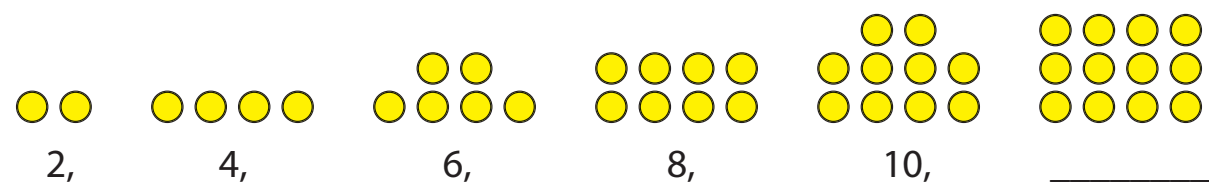


# Whole Number Patterns

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

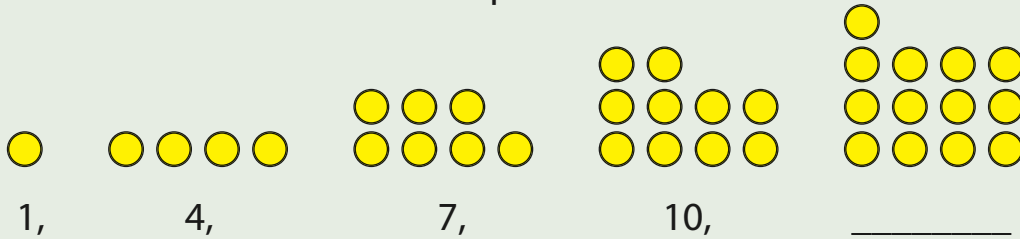
## GET STARTED

1 

2 

3 60, 50, 40, 30, 20, \_\_\_\_\_

Write the next number in the pattern.



1, 4, 7, 10, \_\_\_\_\_



### Step 1

The pattern is \_\_\_\_\_.

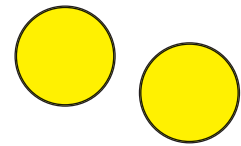
Pattern Rule: Count \_\_\_\_\_ by \_\_\_\_\_ each time.

**Think:** Do I count forward or backward?

### Step 2

Use the pattern rule to find the next number.

Start at 10. Count forward by \_\_\_\_\_.



## TRY IT TOGETHER

Write the next number in each pattern.

4 5, 10, 15, 20, \_\_\_\_\_

5 22, 20, 18, 16, \_\_\_\_\_

## WORK ON YOUR OWN

Write the next number in each pattern.

6 3, 6, 9, 12, \_\_\_\_\_

7 20, 30, 40, 50, \_\_\_\_\_

8 15, 13, 11, 9, \_\_\_\_\_

9 60, 55, 50, 45, \_\_\_\_\_

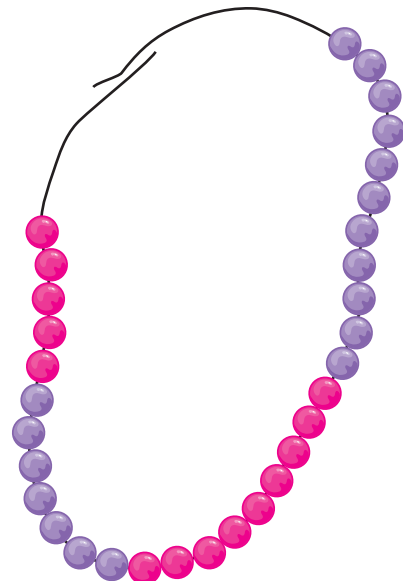
10 12, 9, 6, 3, \_\_\_\_\_

11 4, 8, 12, 16, \_\_\_\_\_

Solve the problem.

- 12 Julia puts beads on a necklace. She uses a pattern. She uses 5 pink beads first. Then she uses 7 purple beads, 9 pink beads, and 11 purple beads. How many pink beads will she use next?

\_\_\_\_\_ pink beads



EXPLAIN



Jason said that the number 17 does **not** belong in the following pattern.  
Is he correct? Explain.

4, 8, 12, 16, 17, 20, 24

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CHECK UP

Fill in the bubble of each correct answer.

13 What is the next number in the pattern?

5, 9, 13, 17,   ?

16       19       21

14 What is the next number in the pattern?

18, 15, 12, 9,   ?

8       6       3

15 Write the first 4 numbers in a pattern.  
Start the pattern with the number 15.  
Is the pattern increasing or decreasing?  
Talk it over.





## Academic Vocabulary

number line  
tick mark  
graph of a number

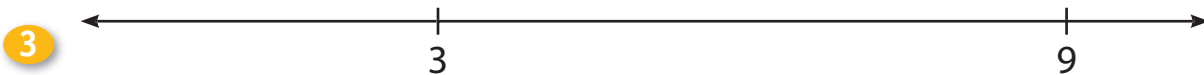
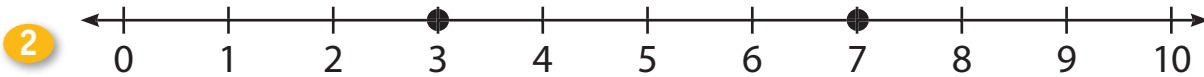
## Lesson 2

# Number Lines

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

### GET STARTED

1 5, 9, 13, 17, \_\_\_\_\_



Find 3 on the number line. Then find 9 on the number line.



### HOW TO

#### Step 1

Is 3 to the left of 2, between 2 and 6, or to the right of 6?

\_\_\_\_\_

**Think:** Which number is 3 closer to?

#### Step 2

Draw 3 on the number line.

#### Step 3

Is 9 to the left of 2, between 2 and 6, or to the right of 6?

\_\_\_\_\_

**Think:** How close is 9 to 6?

#### Step 4

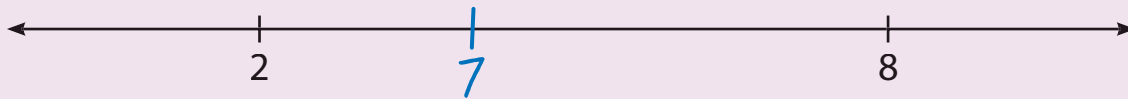
Draw 9 on the number line.



## EXPLAIN



Laura drew the 7 on the number line. Why is Laura incorrect? How can she move the 7 so that it is in the correct place? Explain.




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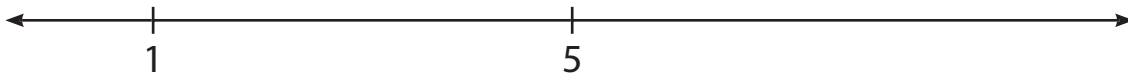


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## CHECK UP

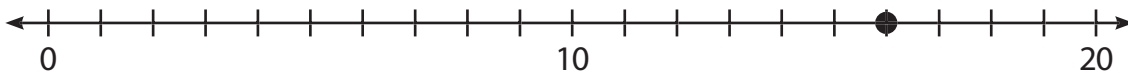
Fill in the bubble of each correct answer.

- 11 Which number is found in the middle of 1 and 5 on the number line?



3       4       9

- 12 What is the name of the point shown on the number line?



6       15       16

- 13 How can you decide whether 4 is closer to 2 or 8? Talk it over.

