

STECK-VAUGHN



# Stanford

Tenth Edition



# Mathematics Problem Solving



## DIRECTIONS

Read each question or problem carefully. Then answer the question or work the problem. Mark the space for your answer.

### SAMPLE A

What is the value of the 5 in this number?

1853

- A 5 ones
- B 5 tens
- C 5 hundreds
- D 5 thousands

### SAMPLE B

The chart shows the lengths of four U.S. bridges.

Four U.S. Bridges

Name	Length (in meters)
Golden Gate	1280
George Washington	1067
Tacoma Narrows II	853
Mackinac	2626

Which bridge is the *shortest*?

- A Golden Gate
- B George Washington
- C Tacoma Narrows II
- D Mackinac

1

The city of Calgary, Alberta, in Canada had a population of 821,628 in 1996. What is 821,628 rounded to the nearest thousand?

- A 800,000
- B 820,000
- C 822,000
- D 821,600

2

Greece has an area of 50,961 square miles. What is the value of 9 in 50,961?

- A 9000
- B 900
- C 90
- D 9

3

For a timed run in gym class, Gabriel ran a distance of 1.35 miles, Gina ran 0.78 miles, Leah ran 1.68 miles, and Tony ran 0.94 miles. Who ran the *greatest* distance?

- A Gabriel
- B Gina
- C Leah
- D Tony



29

Molly is painting the rooms in her house. She paints 2 rooms in 6 hours.



At this rate, how long will it take Molly to paint 7 rooms?

- A 12 hours
- B 15 hours
- C 18 hours
- D 21 hours

30

For Terry's birthday, he brings 30 cookies to share with the class. Each student takes one cookie on his or her turn. How many cookies will be left after the ninth person takes a cookie?

- A 9
- B 21
- C 31
- D 39

31

Julian's older brother has a job after school. The graph shows the amount of money Julian's brother earned at his after-school job each week for 6 weeks.



About how much did Julian's brother earn in week 3?

- A \$100
- B \$115
- C \$120
- D \$130

## Number Sense and Operations

1

Vicki drove through a tunnel that was 29,530 meters long. Which digit in the number 29,530 is in the hundreds place?

- A 2
- B 3
- C 5
- D 9

3

Deanne bought a car for \$13,468. What is 13,468 rounded to the nearest hundred?

- A 10,000
- B 13,400
- C 13,470
- D 13,500

2

One mile is equivalent to 5280 feet. Which digit in the number 5280 is in the tens place?

- A 8
- B 5
- C 2
- D 0

4

This chart shows the names and heights of the five tallest mountains in Colorado.

Mountain Name	Height (in feet)
Blanca Peak	14,345
La Plata Peak	14,361
Mt. Elbert	14,433
Mt. Harvard	14,420
Mt. Massive	14,421

Which height is the *greatest*?

- A 14,345 feet
- B 14,433 feet
- C 14,361 feet
- D 14,421 feet



8

In the figure below, each of the triangles is the same size.



What fractional part of the figure is shaded?

$\frac{1}{2}$   
**A**

$\frac{3}{8}$   
**B**

$\frac{1}{4}$   
**C**

$\frac{1}{8}$   
**D**

9

A game has 65 marbles in it. Each player gets 10 marbles at the beginning of the game. There can be marbles left over. When each player has 10 marbles, what is the greatest number of children who can play the game at one time?

10  
**A**

7  
**B**

6  
**C**

5  
**D**

10

The student council sells candy bars to raise money for new library books. Ian sold  $\frac{2}{7}$  of one box, Mindy sold  $\frac{2}{7}$  of one box, Chip sold  $\frac{3}{7}$  of one box, and Hank sold  $\frac{4}{7}$  of one box.



Which two students together sold one box?

**A** Ian and Mindy

**B** Mindy and Chip

**C** Ian and Hank

**D** Chip and Hank