

NAME \_\_\_\_\_

47 A student uses a solution that contains 16 grams of water to conduct an evaporation experiment.

- At the end of one hour, the amount of water in the solution has decreased by 3.5%.
- At the end of two hours, the amount of water in the solution has decreased by another 4.25%.

Which calculations can be used to determine the amount of water, in grams, remaining in the solution at the end of the second hour?

- A Step 1:  $0.035 \times 16 = 0.56$   
Step 2:  $16 - 0.56 = 15.44$   
Step 3:  $0.0425 \times 15.44 = 0.6562$   
Step 4:  $16 - 0.6562 = 15.3438$
- B Step 1:  $0.035 \times 16 = 0.56$   
Step 2:  $16 - 0.56 = 15.44$   
Step 3:  $0.0425 \times 15.44 = 0.6562$   
Step 4:  $15.44 - 0.6562 = 14.7838$
- C Step 1:  $0.35 \times 16 = 5.6$   
Step 2:  $16 - 5.6 = 10.4$   
Step 3:  $0.425 \times 10.4 = 4.42$   
Step 4:  $16 - 4.42 = 11.58$
- D Step 1:  $0.35 \times 16 = 5.6$   
Step 2:  $16 - 5.6 = 10.4$   
Step 3:  $0.425 \times 10.4 = 4.42$   
Step 4:  $10.4 - 4.42 = 5.98$

50 What is the value of the expression  $\left(-\frac{8}{9}\right) \div \left(-\frac{2}{3}\right) \times \left(-4\frac{1}{2}\right)$ ?

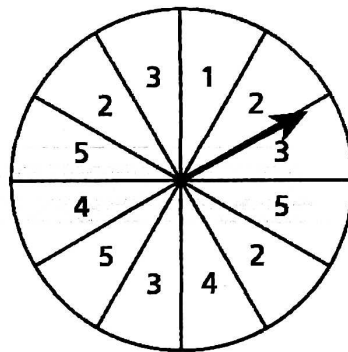
A -6

B  $-\frac{8}{27}$

C  $\frac{8}{27}$

D 6

51 A board game has a spinner divided into sections of equal size. Each section is labeled with a number between 1 and 5.



Which number is a reasonable estimate of the number of times the spinner will land on a section labeled 5 over the course of 150 spins?

A 15

B 25

C 40

D 60

**STOP**

- 52 Find the value of the expression.

$$\frac{5}{(-1.5 + 9.5)} + \frac{0.4(7 + 11)}{-0.2}$$

*Show your work.*

*Answer* \_\_\_\_\_

- 53 A museum opened at 8:00 a.m. In the first hour, 350 people purchased admission tickets. In the second hour, 20% more people purchased admission tickets than in the first hour. Each admission ticket cost \$17.50.

What was the total amount of money paid for all the tickets purchased in the first two hours?

*Show your work.*

Answer \$ \_\_\_\_\_

**GO ON**