

Mon, 3.7

If $5^{x+4} = 25^{x+3}$, what is the value of x ?

- A) -2
- B) -1
- C) 0
- D) 1

Sam can run 4 miles in 48 minutes. If Ahn can run twice as fast as Sam, how many minutes does it take Ahn to run 6 miles?

- A) 24
- B) 30
- C) 36
- D) 48

Tues. 3.8

Scientists study a group of large dogs, allocating each of them 1600 calories per day. $\frac{1}{2}$ of these calories come from carbohydrates, and $\frac{1}{4}$ of these calories come from fats.

25

How many more carbohydrate calories than fat calories is each dog allocated per day?

- A) 150
- B) 250
- C) 400
- D) 800

26

When the dogs are active, the scientists increase the dogs' daily caloric intake by 25%. Of these calories, 1,000 are from carbohydrates. What percentage of the remaining calories come from other, non-carbohydrate sources?

- A) 25
- B) 50
- C) 60
- D) 75

Wed. 3.9

3

Drink Sales for July		
Drink Flavor	16 oz.	24 oz.
Vanilla	1525	3200
Mocha	m	175
Espresso	s	4500
Total	3000	7875

A beverage company offers three different flavors of energy drinks. Each flavor is also offered in two different sizes. The table above shows the number of cans sold in each category during the month of July. If 16 oz. cans represented 20% of the total Espresso cans sold, how many 16 oz. cans of Mocha, m , did the company sell?

- A) 1125
- B) 575
- C) 465
- D) 350