

	Small	Medium	Large
Hamburger Combo	3.99	4.99	5.99
Hot Dog Combo	1.99	2.99	3.99
Chicken Nugget Combo	1.49	2.49	3.49

The chart above shows the prices for a few food items at a local fast food restaurant. Use this chart to answer questions #10 & #11.

10. Which of the following food orders would be the cheapest?

- A. A small hamburger combo and a large hamburger combo
- B. A medium hamburger combo and a medium hot dog combo
- C. A large chicken nugget combo and a medium hot dog combo
- D. A medium hamburger combo and a medium chicken nugget combo
- E. Two large chicken nugget combos

11. If three brothers each want to order one of these combos but they can only spend a total of \$8, which of the following orders could they get?

- A. Two small hamburger combos and a large hot dog combo
- B. Three small hamburger combos
- C. Two medium chicken nugget combos and a medium hot dog combo
- D. A medium hamburger combo and two medium chicken nugget combos
- E. Two large chicken nugget combos and a medium hot dog combo

12. Rosie wants to fence in her garden. The garden is 8 feet long and 4 feet wide. How much fence does she need?

- A. 12 feet
- B. 16 feet
- C. 20 feet
- D. 24 feet
- E. 30 feet

13. David ran around a track four times. He ran his first lap in 1 minute, 35 seconds. Each lap he ran was 13 seconds slower than the lap before it. How long did it take him to run the fourth lap?

- A. 2 minutes, 20 seconds
- B. 2 minutes, 14 seconds
- C. 2 minutes, 8 seconds
- D. 2 minutes, 4 seconds
- E. 2 minutes, 2 seconds

14. Bill usually arrives at work at 7:30 a.m. Today Bill had a dentist appointment and arrived at work 95 minutes later than usual. What time did Bill arrive at work?

- A. 8:05 a.m.
- B. 8:15 a.m.
- C. 8:35 a.m.
- D. 8:50 a.m.
- E. 9:05 a.m.

15. Joe buys a car that cost \$20,000. He pays \$5,000 when he buys the car, and takes out a loan for the rest. He does not have to pay interest on the loan. If he pays \$500 each month, how long will it take for him to pay the car off?

- A. 2 years
- B. 2 years, 3 months
- C. 2 years, 6 months
- D. 2 years, 9 months
- E. 3 years

**Online Math League
Answer Key, 2009-2010 Fifth Grade Contest #2**

1. **A** ($\$11,161 + \$15,934 + \$14,122 = \$41,217 / 3 = \$13,739$)
2. **C** (One half gallon every ten seconds equals three gallons per minute. 100 gallons divided by three equals 33 minutes with one gallon remaining so we must add another 20 seconds to get to 100 gallons.)
3. **D** (Each term is one-third of the previous term.)
4. **C** (200 total players divided by 11 players per team = 18.18 teams. 18 teams multiplied by 11 players per team = 198 players, so there would be a total of 18 teams, with two of these teams having an extra player.)
5. **B**
6. **E** (2,800 miles divided by 32 miles per gallon = 87.5 gallons of gas needed for the trip. 87.5 gallons multiplied by \$2.759 average cost per gallon = \$241.4125, which rounds to \$241.41)
7. **B**
8. **B** (There is enough sugar to make four cheesecakes. There is enough vanilla to make three cheesecakes. However, there is only enough sour cream to make two cheesecakes.)
9. **D**
10. **C** (The total costs would be \$9.98 for answer A, \$7.98 for answer B, \$6.48 for answer C, \$7.48 for answer D, and \$6.98 for answer E.)
11. **C** (The total costs would be \$11.97 for answers A and B, \$7.97 for answer C, and \$9.97 for answers D and E.)
12. **D** (The garden is a rectangle, and the perimeter of a rectangle = $2(\text{length} + \text{height})$. In this case, however, we would replace height with width. So the formula becomes $2(8+4) = 24$.)
13. **B**
14. **E**
15. **C** (Paying off \$15,000 at \$500 per month with no interest would take 30 months)