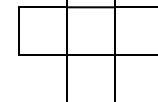
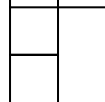
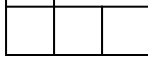
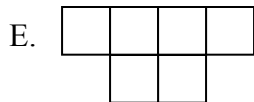
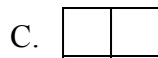
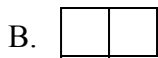
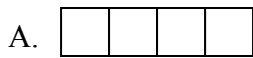


Online Math League
2009 – 2010 Fourth Grade Contest #1

Student Name _____ Date _____

Rules: You have 30 minutes to complete this test. You must work independently, and calculators and other reference tools are not permitted. Each question has exactly one right answer. Do your best!

1. There are 12 months in a year. How many months are in six years?
A. 60 B. 66 C. 72 D. 78 E. 84
2. Tammy has 47¢ in her piggy bank. Bob has 45¢ more than Tammy, and Carrie has 36¢ less than Bob. How much money does Carrie have?
A. 47¢ B. 45¢ C. 56¢ D. 65¢ E. 111¢
3. What number comes first in the following pattern?
_____, 24, 12, 6, 3, 1½
A. 30 B. 36 C. 40 D. 44 E. 48
4. Three people are going on a trip together. They have to drive a total of 184 miles. If each of them wants to drive the same distance how far should each person drive?
A. 61 miles B. $61\frac{1}{8}$ miles C. $61\frac{1}{4}$ miles D. $61\frac{1}{3}$ miles E. $61\frac{1}{2}$ miles
5. Jim is doing chores around the house to earn money. If he earns \$5.50 per week, how many weeks will it take before Jim has \$40?
A. 7 B. 8 C. 9 D. 10 E. 11
6. Which of the following figures could be folded into a cube? (None of the sides of the folded figure can overlap, and all six faces of the cube must be covered.)



7. Mudville Elementary School has 304 students. One-quarter of the students are absent today. Of the students that are absent, one-quarter are girls. How many boys are absent today at Mudville Elementary School?

A. 76 B. 19 C. 228 D. 57 E. 47

8. Mike has soccer practice every day starting at 4:55 p.m. and finishing at 6:08 p.m. For how long does Mike have practice every day?

A. 1 hour, 13 minutes B. 1 hour, 23 minutes C. 1 hour, 47 minutes
D. 1 hour, 53 minutes E. 2 hours, 47 minutes

College Parking Ramp Costs	
Hourly Parking: 50¢ per hour	Daily Parking: \$3 per day
Unlimited Weekly Parking: \$14	Unlimited Monthly Parking: \$50

For questions 9 & 10, please refer to the chart above.

9. Bill has a class every Tuesday that lasts three hours. The class is six weeks long. What is the least amount that Bill will have to pay for parking to attend this class?

- A. \$9 B. \$18 C. \$84 D. \$100 E. \$7

10. Chris has classes every Tuesday and Thursday for eight hours each day. These classes are six weeks long. What is the least amount that Chris will have to pay for parking to attend these classes?

- A. \$36 B. \$48 C. \$84 D. \$100 E. \$32

11. Which of the following equations is written correctly?

- A. $35 \div 5 = 26 \div 4$ B. $36 \div 3 < 56 \div 7$ C. $36 \div 6 = 48 \div 8$
D. $81 \div 9 < 14 \div 2$ E. $110 \div 10 = 70 \div 5$

12. What number belongs in the box in the following equation?

$$\square - 184 = 42$$

- A. 186 B. 202 C. 212 D. 222 E. 226

13. A baseball game has seven innings. Each inning has six outs (three for each team). If every batter strikes out on the sixth pitch, then how many pitches were thrown in the baseball game?

- A. 297 B. 264 C. 240 D. 121 E. 252

14. Max left his house to go grocery shopping at 3:42 p.m. He returned home one hour and 39 minutes later. At what time did Max get home?

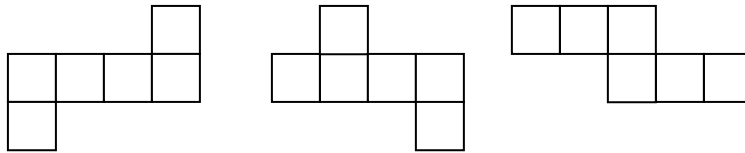
- A. 5:42 p.m. B. 5:21 p.m. C. 4:42 p.m.
D. 5:31 p.m. E. 5:03 p.m.

15. Josh had a party where he ordered seven pizzas, four party subs, and three trays of small sandwiches. If each pizza was cut into eight pieces, each party sub was cut into 12 pieces, and each sandwich tray had 15 sandwiches on it, how many total items of food did Josh have for his guests?

- A. 161 B. 180 C. 177 D. 149 E. 136

Online Math League
Answer Key, 2009-2010 Fourth Grade Contest #1

1. **C** (The first question on every Online Math League test involves a topic the students should be comfortable with, as we want to begin each test on a positive note. In this case, we've chosen a basic multiplication problem.)
2. **C**
3. **E** (Each term is half of the previous term in this sequence, so the first term must be double the second term, and $24 + 24 = 48$.)
4. **D**
5. **B**
6. **D** (This is an extremely fun topic to delve into more deeply. While answer choice D is the only correct answer out of the five choices given, there are a large number of other patterns that would work, such as the three figures below. How many patterns can your students find? Try giving them graph paper and scissors to see how many cube patterns they can find that work!)



7. **D**
8. **A** (The wrong answers your students select will tell you a lot about how they tried to solve this problem. Did some of them choose answer D? Those students probably tried to solve $608 - 455$ in columns using borrowing. Answer choices C and E indicate that a student probably erroneously believed that $55 - 8$ would find the number of elapsed minutes.)
9. **A** (Hourly parking would be the cheapest.)
10. **A** (Daily parking would be the cheapest.)
11. **C** (This is a simple way for us to test 10 basic division facts – plus an understanding of inequalities – all in the same question.)
12. **E**
13. **E**
14. **B**
15. **D**