Ten Question Test

1) The ratio of boys to girls in Meg’s chorus is 3 to 4. If there are 20 girls in her chorus, how many boys are there?
   A. 12
   B. 15
   C. 16
   D. 24

   This is from 2003 8th grade MCAS, (#26)

2) The wheels on Bill’s bicycle each have a radius of 35 centimeters. Which of the following is closest to the distance the bicycle moves along the ground in one complete revolution of the wheels?
   A. 35 cm
   B. 55 cm
   C. 110 cm
   D. 220 cm

   This is from 2004 10th grade MCAS. (#5)

3) Jeremy and Stephen are playing a game called “Guess My Number.” Jeremy gave Stephen the following clues.
   • The number has four digits.
   • The thousands digit is twice the hundreds digit.
   • The ones digit is divisible by five.
   • The sum of the digits is 13.

   What could be Jeremy’s number?

   This is from 2003 6th grade MCAS. (#30)

4) Maurice drinks four 8-ounce glasses of milk every day. How many pints of milk does he drink each day?
   1 pint = 16 ounces
   A. 2 pints
   B. 4 pints
C. 16 pints  
D. 32 pints

This is from the 2003 4th grade MCAS. (#24)

5) What is the minimum number of congruent, equilateral triangles needed to construct a three-dimensional figure if no other shapes are used?
   A. 3  
   B. 4  
   C. 6  
   D. 8

This is from the 2004 8th grade MCAS. (#13)

6) Allison lives 1 mile from the park. She walked at a rate of 2 miles per hour directly from her house to the park. If Allison left her house at 1:00 P.M., at what time did she arrive at the park?
   A. 1:02 P.M.  
   B. 1:30 P.M.  
   C. 1:50 P.M.  
   D. 3:00 P.M.

This is from the 2004 6th grade MCAS. (#9)

7) Mr. Johnson purchased 20 concert tickets for a total of $225. The concert tickets cost $15 for adults and $10 for children under 12. How many tickets for children under 12 did Mr. Johnson purchase?
   A. 5  
   B. 9  
   C. 15  
   D. 18

This is from the 2004 10th grade MCAS. (#32)
8) Carmen put a number in to the “START” box of the sentence in figure #1 on the attached handout. The “END” number was 20. What number did Carmen put into the “START” box?

**Figure #1:**

![Image of a number line](image)

This is from the 2003 4th grade MCAS. (#28)

9) The Triangle ABC is shown in figure #2. Points B, C, and D are collinear. What is the degree measure of angle B?

**Figure #2**

![Image of a triangle](image)

This is from the 2004 8th grade MCAS. (#21)

10) The cube shown in figure #3 is cut into three pieces. Which of the groups in figure #4 could be the three pieces of the cube?

**Figure #3**

![Image of a cube](image)

**Figure #4**
This is from the 2003 grade 4 MCAS. (#33)