


2001 AMC 8 Sample Questions

4. The digits 1, 2, 3, 4 and 9 are each used once to form the smallest possible **even** five-digit number. The digit in the tens place is
(A) 1 (B) 2 (C) 3 (D) 4 (E) 9
15. Homer began peeling a pile of 44 potatoes at the rate of 3 potatoes per minute. Four minutes later Christen joined him and peeled at the rate of 5 potatoes per minute. When they finished, how many potatoes had Christen peeled?
(A) 20 (B) 24 (C) 32 (D) 33 (E) 40
17. For the game show *Who Wants To Be A Millionaire?*, the dollar values of each question are shown in the following table (where K = 1000). 
- | Question | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
|----------|-----|-----|-----|-----|----|----|----|----|-----|-----|-----|------|------|------|-------|
| Value | 100 | 200 | 300 | 500 | 1K | 2K | 4K | 8K | 16K | 32K | 64K | 125K | 250K | 500K | 1000K |
- Between which two questions is the percent increase of the value the smallest?
(A) From 1 to 2 (B) From 2 to 3 (C) From 3 to 4
(D) From 11 to 12 (E) From 14 to 15
18. Two dice are thrown. What is the probability that the product of the two numbers is a multiple of 5?
(A) $\frac{1}{36}$ (B) $\frac{1}{18}$ (C) $\frac{1}{6}$ (D) $\frac{11}{36}$ (E) $\frac{1}{3}$
22. On a twenty-question test, each correct answer is worth 5 points, each unanswered question is worth 1 point and each incorrect answer is worth 0 points. Which of the following scores is **NOT** possible?
(A) 90 (B) 91 (C) 92 (D) 95 (E) 97
25. There are 24 four-digit whole numbers that use each of the four digits 2, 4, 5 and 7 exactly once. Only one of these four-digit numbers is a multiple of another one. Which of the following is it?
(A) 5724 (B) 7245 (C) 7254 (D) 7425 (E) 7542