

Name _____

MATH 221: BASIC CONCEPTS OF ELEMENTARY MATHEMATICS I

Quiz #6

Points: Each problem is worth 4 points.

1. What is the base-four numeral represented in Figure 1 below?

- (a) 2112_{four}
- (b) 1212_{four}
- (c) 2211_{four}
- (d) 1122_{four}

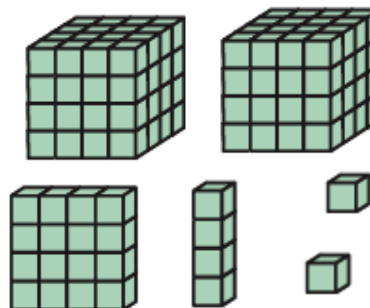


Figure 1

2. Consider each unit, long, flat and block as one piece. There are four pieces shown in Figure 2 below. What is the minimum number of pieces needed to represent the number 2203_{ten} ?

- (a) 5
- (b) 6
- (c) 7
- (d) 8

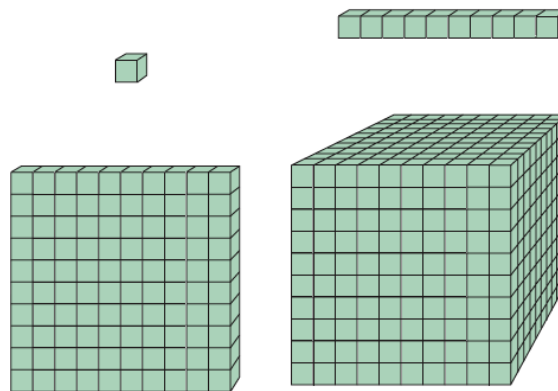


Figure 2

Each multiple choice question in this class will be graded as follows. Your answer should be clearly indicated by a circle around your choice for the answer. Circle the whole answer including the letter. You will get 0 points if a wrong answer is circled (even if a correct answer is also circled), you will get 1 point if no answer is circled, and you will get 4 points for a correct answer. Do not put other marks on or around the choices. If other marks are on or around the choices (for example, if a rectangle is placed around an answer), then you will likely get 0 points for your answer depending solely on what the instructor thinks the marks indicate.