

1.  $(-3)^2 + (-2)^2$  is equal to  
 (A) -13  
 (B) -10  
 (C) 13  
 (D) 25
2. What percentage of 40 is 8?  
 (A) 5%  
 (B) 20%  
 (C) 32%  
 (D) 150%
3. If  $235 \times 48.7 = 11\,444.5$ , then  
 $23.5 \times 0.487 =$   
 (A) 11.4445  
 (B) 114.445  
 (C) 1 144.45  
 (D) 11 444.4
4. Using the distributive property,  
 $49 \times 17 + 49 \times 3 =$   
 (A)  $49 \times 20$   
 (B)  $49 + 20$   
 (C)  $52 \times 66$   
 (D)  $52 + 66$
5. A test was marked out of 80. A boy scored 60% of the marks on the test. How many marks did he score?  
 (A) 20  
 (B) 48  
 (C) 60  
 (D) 75
6. Dan sold 40 concert tickets in 5 days. Each day he sold 3 tickets MORE than the previous day. The number of tickets he sold on the third day is  
 (A) 8  
 (B) 9  
 (C) 10  
 (D) 11
7. Which of the following sets is defined by  $\{x \in \mathbb{Z} : -2 \leq x \leq 4\}$ ?  
 (A)  $\{1, 2, 3, 4\}$   
 (B)  $\{0, 1, 2, 3, 4\}$   
 (C)  $\{-1, 0, 1, 2, 3\}$   
 (D)  $\{-2, -1, 0, 1, 2, 3, 4\}$
8. If  $Q = \{a, b, c\}$ , how many subsets can be obtained from the set  $Q$ ?  
 (A)  $2 + 3$   
 (B)  $2 \times 3$   
 (C)  $3^2$   
 (D)  $2^3$
9. The set of positive integers is an example of  
 (A) a finite set  
 (B) an empty set  
 (C) an infinite set  
 (D) an improper set
10. If  $n(U) = 25$ ,  $n(A) = 14$ ,  $n(B) = 15$  and  $n(A \cap B) = 6$ , then  $n(A \cup B)$  is  
 (A) 2  
 (B) 19  
 (C) 23  
 (D) 29

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**Léo Pomar**



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