AMC 12/AHSME 2005

 \mathbf{B}

1	A scout troop buys	1000 candy	bars at a	price of ve for	r \$2.	They se	ll all t	he candy	bars a	t a
	price of two for \$1.	What was t	heir prot,	in dollars?						

(A) 100

(B) 200

(C) 300

(D) 400

(E) 500

2 A positive number x has the property that x% of x is 4. What is x?

(A) 2

(B) 4

(C) 10

(D) 20

(E) 40

3 Brianna is using part of the money she earned on her weekend job to be seen priced CDs. She used one fth of her money to buy one third of her works and the control of the c What fraction of her money will she have left after she buys all the CDs

(A) $\frac{1}{5}$ (B) $\frac{1}{3}$ (C) $\frac{2}{5}$

At the beginning of the Glod Ce Ir, Lisas goal was to earn an A on at least 80% of her 50 quizzes for the year. The carned an A on 22 of the 12 30 quizzes. If she is to achieve her goal, on at post how rany of the surgion. Trizzes can she earn a grade lower than an A?

(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

5 An 8-foot by 10-foot oor is tiled with square tiles of size 1 foot by 1 foot. Each tile has a pattern consisting of four white quarter circles of radius 1/2 foot centered at each corner of the tile. The remaining portion of the tile is shaded. How many square feet of the oor are shaded?



(A) $80 - 20\pi$

(B) $60 - 10\pi$

(C) $80 - 10\pi$

(D) $60 + 10\pi$

(E) $80 + 10\pi$

6 In $\triangle ABC$, we have AC = BC = 7 and AB = 2. Suppose that D is a point on line AB such that B lies between A and D and CD = 8. What is BD?

(A) 3

(B) $2\sqrt{3}$

(C) 4

(D) 5

(E) $4\sqrt{2}$

7 What is the area enclosed by the graph of |3x| + |4y| = 12?

(A) 6

(B) 12

(C) 16

(D) 24

(E) 25