

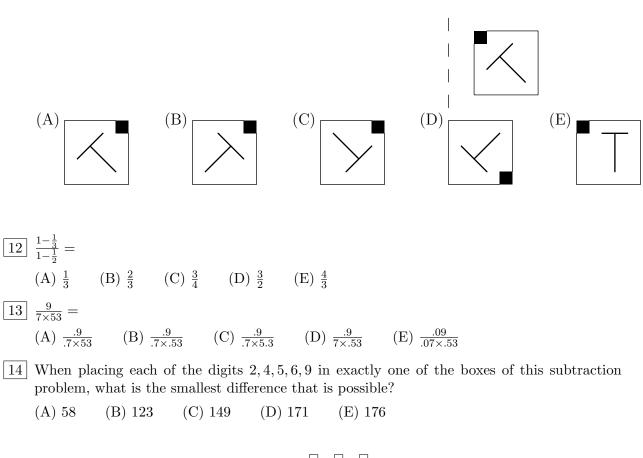
9 There are 2 boys for every 3 girls in Ms. Johnson's math class. If there are 30 students in her class, what percent of them are boys?

(A) 12% (B) 20% (C) 40% (D) 60% (E) $66\frac{2}{3}\%$

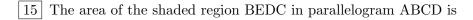
10 What is the number of degrees in the smaller angle between the hour hand and the minute hand on a clock that reads seven o'clock?

(A)
$$50^{\circ}$$
 (B) 120° (C) 135° (D) 150° (E) 165°

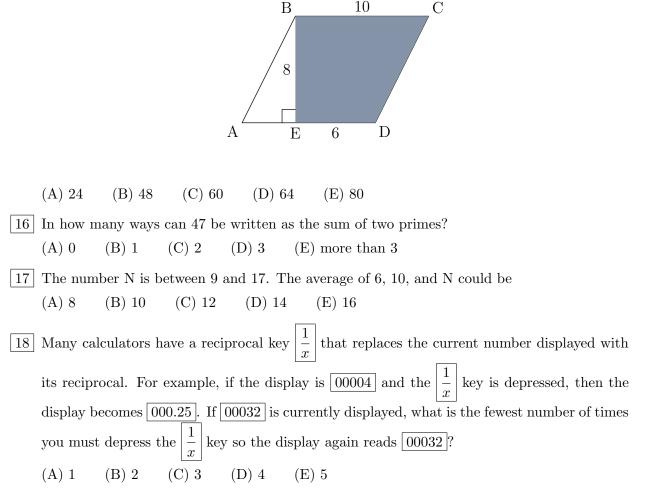
11 Which of the five "T-like shapes" would be symmetric to the one shown with respect to the dashed line?







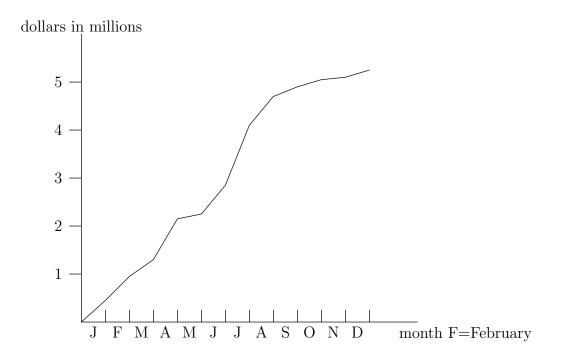
USA AMC 8 1989



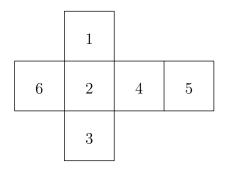
19 The graph below shows the total accumulated dollars (in millions) spent by the Surf City government during 1988. For example, about .5 million had been spent by the beginning of February and approximately 2 million by the end of April. Approximately how many millions of dollars were spent during the summer months of June, July, and August?

(A) 1.5 (B) 2.5 (C) 3.5 (D) 4.5 (E) 5.5

USA AMC 8 1989



20 The figure may be folded along the lines shown to form a number cube. Three number faces come together at each corner of the cube. What is the largest sum of three numbers whose faces come together at a corner?



(A) 11 (B) 12 (C) 13 (D) 14 (E) 15

21 Jack had a bag of 128 apples. He sold 25% of them to Jill. Next he sold 25% of those remaining to June. Of those apples still in his bag, he gave the shiniest one to his teacher. How many apples did Jack have then?

(A) 7 (B) 63 (C) 65 (D) 71 (H	E) 111
---------------------------	---------	--------

22 The letters A, J, H, S, M, E and the digits 1, 9, 8, 9 are "cycled" separately as follows and put together in a numbered list:

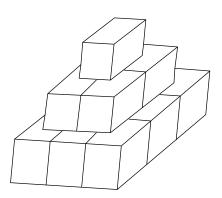
	AJHSME	1989
1. 2.	JHSMEA HSMEAJ	9891 8919
3.	SMEAJH	9198

What is the number of the line on which AJHSME 1989 will appear for the first time?

(A) 6 (B) 10 (C) 12 (D) 18 (E) 24

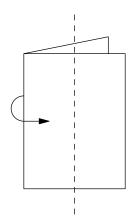
23 An artist has 14 cubes, each with an edge of 1 meter. She stands them on the ground to form a sculpture as shown. She then paints the exposed surface of the sculpture. How many square meters does she paint?

(A) 21 (B) 24 (C) 33 (D) 37 (E) 42



- 24 Suppose a square piece of paper is folded in half vertically. The folded paper is then cut in half along the dashed line. Three rectangles are formed-a large one and two small ones. What is the ratio of the perimeter of one of the small rectangles to the perimeter of the large rectangle?
 - (A) $\frac{1}{2}$ (B) $\frac{2}{3}$ (C) $\frac{3}{4}$ (D) $\frac{4}{5}$ (E) $\frac{5}{6}$

USA AMC 8 1989



25 Every time these two wheels are spun, two numbers are selected by the pointers. What is the probability that the sum of the two selected numbers is even?

(A) $\frac{1}{6}$ (B) $\frac{3}{7}$ (C) $\frac{1}{2}$ (D) $\frac{2}{3}$ (E) $\frac{5}{7}$

