LEVEL I
ALGEBRA READINESS TEST
TYPICAL QUESTIONS FROM COMPETENCY AREAS

Integers

Jim wrote a check for $318.00. If his balance was then $2126.00, what was his balance before he wrote this check?

(A) $808 (B) $1,808 (C) $2,444 (D) $5,306

What number multiplied by 6 gives –18 as a result?

(A)–12 (B) –3 (C) 3 (D) –54

Decimals

$$\frac{7.20}{2.4} =$$

(A) 0.03 (B) 0.30 (C) 3.00 (D) 30.0

Which of the following best approximates 1.147 – 114.7?

(A) –100 (B) –10 (C) 10 (D) 100

Fractions

The ratio of winning tickets to tickets sold in the California Lottery is 2 to 5. If 3,500,000 tickets are sold, how many are "winners"?

(A) 700,000 (B) 750,000 (C) 1,400,000 (D) 1,500,000

$$\frac{1+\frac{1}{2}}{1-\frac{3}{4}} =$$

(A) –6 (B) -2 (C) 2 (D) 6

Exponents

If in the formula p = kt, k=36 and p=144, then t=

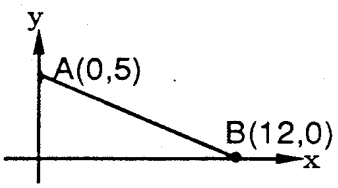
(A) $\frac{1}{4}$ (B) 4 (C) 12 (D) 108

4(b+2)=

(A) 4b+2 (B) b+6 (C) b+8 (D) 4b+8

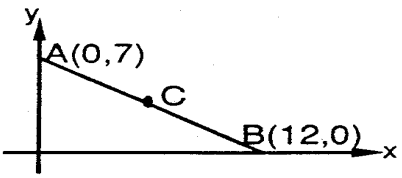
Geometry

In the figure shown, what is the length of segment AB?



(A) -5 (B) 5 (C) 13 (D) 19

If C is the midpoint of segment AB in the figure shown, then the coordinates of C are



(A) $\left(\frac{7}{2},\frac{7}{2}\right)$ (B) $\left(6,\frac{7}{2}\right)$ (C) $\left(\frac{19}{2},\frac{7}{2}\right)$ (D) $\left(19,\frac{7}{2}\right)$

What is the diameter of the circle whose area is 36π?

(A) 12 (B) 18 (C) 6π (D) 18π

Answer key: (1) C (2) B (3) C (4) A (5) C (6) D (7) B (8) D (9) C (10) B (11) A