

ARDT: Algebra Readiness Diagnostic Test
Placement Test Study Guide
Math 150A or Math 151

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) \$1808 (C) \$2444 (D) \$5306

- 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

Equations

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

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

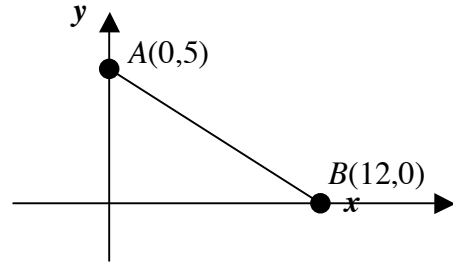
- $4(b+2) =$

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

Geometry

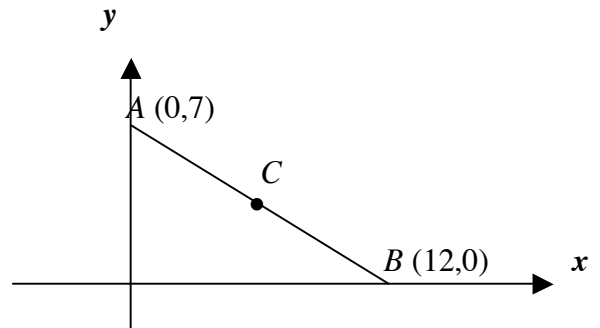
- On the figure shown, what is the length of segment AB ?

(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

**ANSWERS TO SAMPLE QUESTIONS
ALGEBRA READINESS DIAGNOSTIC TEST**

<u>Integers</u>	* (C)	* (B)	
<u>Decimals</u>	* (C)	* (A)	
<u>Fractions</u>	* (C)	* (D)	
<u>Equations</u>	* (B)	* (D)	
<u>Geometry</u>	* (C)	* (B)	* (A)