

MATH TIMED DRILL #4 (8 minutes)

3. A box in the shape of a right rectangular prism has a volume of 60 cubic inches. If the dimensions of the box are 3 inches by 5 inches by x inches, what is the value of x ?

- A) 3
- B) 4
- C) 5
- D) 6

4. For $i = \sqrt{-1}$, what is the sum of $(7 + 3i) + (-8 + 9i)$?

- A) $-1 - 12i$
- B) $-1 + 12i$
- C) $15 - 6i$
- D) $15 + 6i$

18. A partially filled pool contains 600 gallons of water. A hose is turned on, and water flows into the pool at the rate of 8 gallons per minute. How many gallons of water will be in the pool after 70 minutes?

- A) 560
- B) 1160
- C) 2480
- D) 4800

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$$\sqrt[a]{x^b}$$

20. Which of the following is equivalent to the expression above for all $x > 0$, where a and b are positive integers?

A) x^{ab}

B) $x^{\frac{a}{b}}$

C) $x^{\frac{b}{a}}$

D) x^{a-b}

9. For $\frac{x}{y} = 2$, what is the value of $\frac{4y}{x}$?

A) 0

B) 1

C) 2

D) 4

10. In a right triangle, one angle measures X° , where $\sin X^\circ = \frac{4}{5}$. What is $\cos(90^\circ - X^\circ)$?

A) $\frac{1}{5}$

B) $\frac{3}{5}$

C) $\frac{4}{5}$

D) $\frac{5}{4}$

END OF DRILL #4