

Name: \_\_\_\_\_

Date: \_\_\_\_\_

**SQUARE ROOT ARITHMETIC**  
**N-GEN MATH® ALGEBRA I DO NOW**

**FLUENCY**

1. Which of the following is equivalent to the product  $\sqrt{2} \cdot \sqrt{6}$ ?

(1)  $3\sqrt{2}$

(2)  $2\sqrt{6}$

(3)  $2\sqrt{3}$

(4)  $6\sqrt{2}$

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2. Which product below gives a rational number as a result?

(1)  $\sqrt{6} \cdot \sqrt{9}$

(2)  $\sqrt{5} \cdot \sqrt{20}$

(3)  $\sqrt{3} \cdot \sqrt{10}$

(4)  $\sqrt{8} \cdot \sqrt{4}$

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3. Which of the following is the value of the expression  $\sqrt{17} \cdot \sqrt{17} - \sqrt{3} \cdot \sqrt{3}$ ?

(1)  $\sqrt{8}$

(2) 16

(3)  $\sqrt{11}$

(4) 14

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4. Which expression below is equivalent to  $\frac{2}{\sqrt{6}}$ ?

(1)  $\frac{\sqrt{6}}{3}$

(3)  $\frac{\sqrt{6}}{2}$

(2)  $\frac{\sqrt{3}}{2}$

(4)  $\frac{\sqrt{3}}{6}$

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5. Which of the following is the result of the difference  $5\sqrt{8} - \sqrt{32}$ ?

(1)  $3\sqrt{3}$

(2)  $6\sqrt{2}$

(3)  $7\sqrt{3}$

(4)  $5\sqrt{2}$

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