SBAC MATH & Geometry: Pythagorean Theorem Practice A

Name _____

_ Period ____ Date ____

GEOMETRY: PYTHAGOREAN THEOREM A



G: Pythagorean Theorem A

SBAC MATH & Geometry: Pythagorean Theorem Practice A

lame	Period Date
Example Stem 3: A 13-foot ladder is lear of the ladder is on the ground at a distance the tree. The base of the tree and the gro shown.	nce of 5 feet from the base of
13ft 13ft 5ft 5ft 5ft 5ft 5ft 5ft 5ft 5ft 5ft 5	and the top of the ladder, <i>x</i> ,
Example Stem: The table shows the side Determine whether the side lengths define	
Select Yes if it is a right triangle. Select Not triangle.	No if it cannot be a right
Triangle Side Lengths Y	Yes No
A MARK STATE AND	· · · · · · · · · · · · · · · · · · ·
	Example Stem 3: A 13-foot ladder is le of the ladder is on the ground at a distant the tree. The base of the tree and the gr shown.

G: Pythagorean Theorem A

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N	lame Per	riod Date
5	Example Stem 1: A coordinate plane is shown with	h labeled points.
	6- 4- 2- B	- ×
	-8-6-4-20 2 4 6 8 -8-6-4-2 -2 -4 -6-	
	What is the distance between point A and point B oplane?	n the coordinate
	A. 5 B. 6 C. 10 D. 14	
6	Example Stem 2: What is the distance between per (-3, -4) on the coordinate plane? A. 5 B. 6	pints (5, 2) and
	B. 6 C. 10 D. 14	

G: Pythagorean Theorem A



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SBAC MATH & Expressions & Equations: Exponents Practice A

Name _____ Date ____

EXPRESSIONS & Equations: Exponents

] Example Stem: Select all expressions equivalent to (45 • 4-3)-2. A. $\frac{1}{256}$ B. 256 C. $4^{-10} \cdot 4^{6}$ D. $4^3 \cdot 4^{-5}$ 2 Example Stem: Enter the value of n that makes the equation $4^5 \bullet 4^n = 4^{15}$ true. 3 Example Stem 1: Select all possible values for x that solve the equation $x^2 = 200$. A. 10√20 B. 100√2 C. 10√2 D. √200

8EE: Exponents A

SBAC MATH & Expressions & Equations: Exponents Practice A

Name	e Period Date
4	Example Stem 2: Select all possible values for x in the equation $x^2 = 200$.
	A. $10\sqrt{2}$ B. $10\sqrt{20}$ C. $20\sqrt{10}$ D. $-10\sqrt{2}$ E. $-10\sqrt{20}$ F. $-20\sqrt{10}$
5	Example Stem: Select all possible values for x in the equation, $x^3 = 250$. A. $5\sqrt[3]{2}$ B. $\sqrt[3]{250}$ C. $5\sqrt[3]{10}$ D. $25\sqrt[3]{10}$
6	Example Stem: How many times larger than 2×10^3 is 6×10^6 ? A. 3×10^2 B. 3×10^3 C. 6×10^6 D. 12×10^9
7	Example Stem 1: Approximately 7.5×10^5 gallons of water flow over a waterfall each second. There are 8.6×10^4 seconds in 1 day. Enter the approximate number of gallons of water that flow over the waterfall in 1 day. A. 6.45×10^{21} B. 6.45×10^{20} C. 6.45×10^{10} D. 6.45×10^9



SBAC MATH & Expressions & Equations: Exponents Practice A

Name	e Period Date
8	Example Stem 2: Which value is closest to (6 x 10 ⁶) + (2 x 10 ⁴)?
CLAIM 2	A. 8.0×10^{10} B. 8.0×10^{6} C. 6.0×10^{10} D. 6.0×10^{6}
9 Claim 3	Example Item 3D.2b (Grade 8) Primary Target 3D (Content Domain EE), Secondary Target 1B (CCSS 8.EE.A), Tertiary Target 3C Maggie claims that when you raise a whole number to a power, the result is always a greater number. That is, $s^n > s$. For example: $4^3 > 4$ $5^4 > 5$ $10^9 > 10$ Maggie's claim is not true for all values of n and s . For what values of n and s is Maggie's claim true? Complete the inequalities. $s > []$ $n > []$



SBAC MATH & Expressions & Equations: Exponents Practice B

Name

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Period ____ Date ____

EE: Exponents B

EXPRESSIONS & EQUATIONS: EXPONENTS B



Approximately 7.5×10^5 gallons of water flow over a waterfall each second. There are 8.6×10^4 seconds in 1 day. Select the approximate number of gallons of water that flow over the waterfall in 1 day.



- 6.45 × 10²⁰
- © 6.45 × 10¹⁰
- 6.45 × 10⁹

