Name	
Mrs. Roumbos	

Date	
8R Period	

Take Home Quiz #10 Show all work where possible!

Due:_____

1) Which set of numbers includes the square root	2) Which number is an irrational number?
of 20?	
A) irrational numbers	A) $4\frac{5}{6}$
B) integers	B) -11
C) rational numbers	C) 0.15783623
D) whole numbers	D) 2.358
3) Which of these is a rational number?	4) Which is an irrational number?
A) $\sqrt{8}$	A) $\sqrt{81}$
B) $\sqrt{25}$	B) -11
$ c\rangle \sqrt{30}$	$c)\sqrt{5}$
D) π	D) $0.\overline{3}$
5) Which choice orders the numbers from least to	6) Between which two whole numbers is $\sqrt{456}$?
greatest? Show work!	
	A) 20 and 21
A) $2.\overline{22}$, $\sqrt{5}$, $2\frac{3}{5}$, $2\frac{5}{8}$	B) 21 and 22
5, 2.22, 73, 25, 8	C) 22 and 23
B) $2\frac{5}{8}$, $2\frac{3}{5}$, $2.\overline{22}$, $\sqrt{5}$	D) 23 and 24
8, 25, 2.22, 43	•
c) $2\frac{5}{8}$, $2\frac{3}{5}$, $\sqrt{5}$, $2.\overline{22}$	
D) $2.\overline{22}$, $2\frac{3}{5}$, $2\frac{5}{8}$, $\sqrt{5}$	*
7) Which square root is marked as a point on this	8) √175 ≈
number line?	
	A) between 12 and 13
	B) between 13 and 14
A) $\sqrt{-3}$	C) between 14 and 15
B) $\sqrt{0.5}$	D) 14.1
(c) $\sqrt{2.5}$	*
D) √5	
9) Between which two whole numbers is $\sqrt{227}$?	10) \(\delta(1) \)
	10) Which number is greater than $\frac{7}{2}$?
A) 20 and 21 C) 13 and 14	A) $\sqrt[3]{27}$ C) 3. $\overline{4}$
B) 15 and 16 D) 11 and 12	B) $\sqrt{13}$ D) π

11) Which symbols makes this number sentence	12) Which answer lists the numbers from greatest
true? Show your work.	to least? Show work!
π $\sqrt{4}$	
	A) $\frac{6}{11}$, 1.015, $\sqrt{3}$, $\sqrt[3]{8}$
A) <	
B) >	B) $\sqrt{3}$, $\sqrt[3]{8}$, 1.015, $\frac{6}{11}$
(60)	5.70
(c) =	c) $\sqrt[3]{8}$, $\sqrt{3}$, 1.015, $\frac{6}{11}$ b) $\sqrt[3]{8}$, $\frac{6}{11}$, 1.015, $\sqrt{3}$
D) ≤	11
	D) $\sqrt[3]{8}, \frac{6}{11}, 1.015, \sqrt{3}$
12) 2	14) Deture or which two whole numbers is \(\frac{755}{255}\)
13) Between which two whole numbers is $\sqrt[3]{83}$?	14) Between which two whole numbers is $\sqrt{355}$?
A) 4 and 5	A) 18 and 19
A) 4 and 5 B) 6 and 7	A) 18 and 19 B) 17 and 18
C) 8 and 9	C) 19 and 20
D) 9 and 10	D) 16 and 17
15)What is the value of $\sqrt{81}$?	16) Which number is a perfect square?
13)What is the value of vor:	
A) 0.81	A) 600
B) 9	B) 529
	C) 238
$C) \frac{1}{9}$	D) 156
D) 40.5	
17) Which shows 0.0000519 expressed in scientific	18) What is the value of $\sqrt[3]{64}$
notaion?	
	A) 16
A) 5.19×10^{-5}	B) 4
B) 5.19×10^5	C) 8
C) 51.9×10^{-4}	D) 3
D) 51.9×10^4	
400 248 : 1 1	20) What are also be in the increase of the
19) Which shows another way to write	20) What standard number is represented by
6 · 6 · 6 · 6 · 6?	3.8×10^{5} ?
A) 6 ⁵	A) 3,800
B) 5 ⁶	B) 38,000
C) 6 ⁶	C) 380,000
D) 5 ⁵	D) 3,800,000
	3,3,555,555

21) Which shows 0.00000464 expressed in	22) What is the value of 3 ⁻² ?
scientific notation?	
	A) -32
A) 46.4×10^{-5}	B) -6
B) 4.64×10^6	c) 1
$C) 4.64 \times 10^{-6}$	
D) 4.64 × 10 ⁵	$ D) \frac{1}{9}$
0) 4.04 × 10	9
23) What is 2.48×10^3 written in standard form?	24) What is the value of 2 ⁻⁴ ?
A) .00248	A) -8
B) 24,800	B) -16
C) 2,480	
D) 2.48	$(c) \frac{1}{8}$
0) 2.10	80%
	D) $\frac{1}{16}$
	16
25) Which number is NOT a perfect square?	26) Which number is $\sqrt{441}$?
A) 81	
A) 81	A) 20.1
B) 111	B) 21
C) 121	C) 41
D) 225	D) 44
$(6)^3 \cdot (6^4)^2 =$	28) 20-3 ² =
show work!	
A) 6 ⁹	A) 11
B) 6 ¹¹	B) 14
C) 6 ²⁴	C) 168
D) 3 ⁶⁸	D) 289
20) White 402 000 000 in an institic metation	20) (02 06) : (04 02)
29) Write 402,000,000 in scientific notation.	30) (92 · 96) ÷ (94 · 92)
A) 4.02×10^8	A) 5
B) 4.02 × 10 ⁻⁸	B)1 ²
C) 40.2 × 10 ⁷	C) 9 ¹⁴
D) 40.2 × 10 ⁻⁹	D) 9 ²
0) 10.2 × 10	
31) (2 ⁴) ⁵ =	32) Which shows an equivalent expression? Show
	86 • 83 • 85 Work!
A) 2 ⁻¹	8° • 8°
B) 2 ²⁰	A) 8
c) 2 ⁹	7
D) 1 ⁹	B) 7
	C) 1
	D) $\frac{1}{8}$
	8