Reflection Sheet

Name: _____ Date: _____ Week #:_____

Assignments	Grade	Comments
Parent Signature		Please sign weekly

Date	Class work	Homework (must write in planner as well)
Monday		
Tuesday		
Wednesday		
Thursday		
Friday		

****Students must complete their homework daily, 100%; the consequence = silent lunch daily****

Parent Signature: _____

Essential Questions	Answers
1.	
2.	
3.	
4.	
5.	
6.	
7.	
8.	
9.	
10.	

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"Warm-up's Q1W6"

| EE.1	Show all your work
Monday Warm-up What is the value of this expression written as a fraction? $(6^{-3})(36^{-4})(6^5)$	
Tuesday Warm-up **(8.EE.3)** **The statue of the famous leader is 3.4 meters tall. The town bank is 2.2×10^2 meters tall. About how much taller is the bank than the statue?**	Show all work here
Wednesday Warm-up (8.EE.2) A painter needs to buy materials to paint an ⁻cent wall McGee's house. The area of the square ⌐,900 ft². How long should the tape be to go around the perimeter of the wall?	Show all work here
Thursday Warm-up The following rectangle and square ply wood have the same perimeter. What is the value of x? x [rectangle] 2x+1 [square] 3x+ 2	
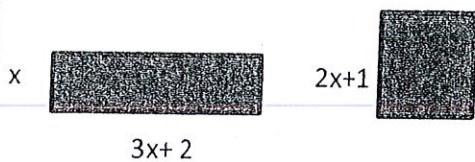
Cubes and Cube Roots Worksheet

Name _____ Date _____ Period _____

What does it mean to "cube" a number?

Fill in the chart:

$1^3 =$	$2^3 =$	$3^3 =$	$4^3 =$	$5^3 =$
$6^3 =$	$7^3 =$	$8^3 =$	$9^3 =$	$10^3 =$

The inverse of cubing a number is....

$\sqrt[3]{8} =$	$\sqrt[3]{512} =$	$\sqrt[3]{125} =$	$\sqrt[3]{64} =$

How do you find the cube root of a *non-perfect cube?*

Example: what is the cube root of 30?

Well, $3 \times 3 \times 3 = 27$ and $4 \times 4 \times 4 = 64$, so we can guess the answer is between 3 and 4.

- Let's try 3.5: $3.5 \times 3.5 \times 3.5 = 42.875$
- Let's try 3.2: $3.2 \times 3.2 \times 3.2 = 32.768$
- Let's try 3.1: $3.1 \times 3.1 \times 3.1 = 29.791$

We are getting closer, but very slowly ... at this point, I get out my calculator and it says:

3.10723250505938588668877662492752224

... but the digits just go on and on, without any pattern. So even the calculator's answer is only an *approximation* !

Practice: What 2 perfect cubes does $\sqrt[3]{89}$ fall between?

Practice: Rounded to the nearest hundredth, what is the $\sqrt[3]{102}$?

Assignment:

Write the **square** or **cube** of each number.

A. $4^2 =$ _____ $4 \times 4 = 16$ $9^2 =$ _____ $3^3 =$ _____

B. $6^3 =$ _____ $7^2 =$ _____ $15^2 =$ _____

C. $10^3 =$ _____ $5^2 =$ _____ $14^2 =$ _____

D. $20^2 =$ _____ $24^2 =$ _____ $19^2 =$ _____

E. $8^3 =$ _____ $13^2 =$ _____ $48^2 =$ _____

F. $17^2 =$ _____ $25^3 =$ _____ $37^2 =$ _____

Write the **square root**.

G. $36 =$ _____ 6^2 $64 =$ _____ $81 =$ _____ $25 =$ _____ $324 =$ _____ $529 =$ _____

H. $100 =$ _____ $49 =$ _____ $4 =$ _____ $16 =$ _____ $121 =$ _____ $1,600 =$ _____

L. $400 =$ _____ $225 =$ _____ $625 =$ _____ $144 =$ _____ $900 =$ _____ $2,500 =$ _____

Write the **cube root**.

J. $125 =$ _____ 5^3 $1,000 =$ _____ $64 =$ _____ $27 =$ _____ $8 =$ _____ $216 =$ _____

K. $512 =$ _____ $1,728 =$ _____ $2,744 =$ _____ $343 =$ _____ $8,000 =$ _____ $6,859 =$ _____

Use the chart on the back to determine which two whole numbers the non-perfect cube falls between:

$\sqrt[3]{200}$ is between _____ and _____

$\sqrt[3]{4}$ is between _____ and _____.

$\sqrt[3]{1,058}$ is between _____ and _____.

$\sqrt[3]{65}$ is between _____ and _____.

$\sqrt[3]{2,201}$ is between _____ and _____.

Using your calculator and rounding to the nearest hundredth, write the cube root:

$\sqrt[3]{200} =$ _____

$\sqrt[3]{4} =$ _____

$\sqrt[3]{1,058} =$ _____

$\sqrt[3]{65} =$ _____

$\sqrt[3]{2,201} =$ _____

Homework Unit 1 Sample Test Questions

Student

Class

Date

1. What is the **approximate** value of $\sqrt{99}$?

A. 10

B. 25

C. 50

2. Which is a whole number?

A. -2

B. 0

C. 2.5

3. In which set(s) of numbers does π belong?

A. irrational only

B. rational only

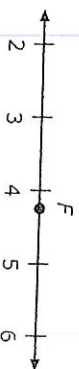C. rational and integer

D. rational, integer, and natural

4. Which set of numbers contains only whole numbers?

A. {-3, -2, -1}

B. {0, 2, 4}

C. {1.5, 2.5, 3.5}

5. Which number is located at **approximately** point F on the number line below?

A. $\sqrt{8}$
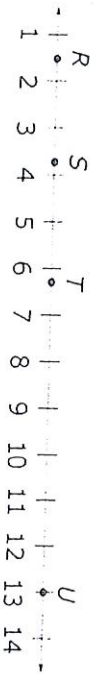
B. $\sqrt{12}$

C. $\sqrt{18}$

6. Which set of numbers contains only natural numbers?

A. $\{-1, 0, 1\}$

B. $\{0, 1, 2\}$

C. $\{1, 2, 3\}$

7. Which letter is located at **approximately** $\sqrt{13}$ on the number line below?

A. R

B. S

C. T

D. U

8. Which number is a natural number?

A. 1

9. Which list of numbers is ordered from least to greatest?

A. $^-\sqrt{10},\ ^-\sqrt{8},\ ^-\sqrt{6}$

B. $^-\sqrt{6},\ ^-\sqrt{8},\ ^-\sqrt{10}$

C. $^-\sqrt{10},\ ^-\sqrt{6},\ ^-\sqrt{8}$

10. Between which 2 numbers is $\sqrt{2}$?

A. 1.0 and 1.5

B. 1.5 and 2

C. 2 and 2.5

D. 2.5 and 3
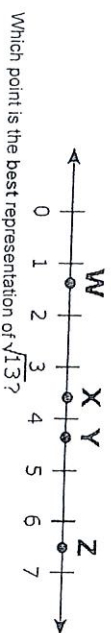
11. Which number is greater than 7 but less than 8?

B. 0

C. -1

A. $\sqrt{55}$

B. $\sqrt{35}$

C. $\sqrt{15}$

C. ¯4

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12. Four points are plotted on a number line.

Which point is the best representation of $\sqrt{13}$?

A. w

B. x

C. y

D. z

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14. Which number is located at **approximately** point H on the number line below?

A. $\sqrt{11}$

B. $\sqrt{21}$

C. $\sqrt{28}$

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13. Which number is an integer?

A. ¯3.5

B. $\dfrac{^{-}2}{3}$

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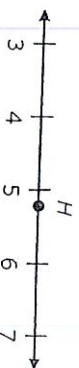
15. Which number is greater than 4 but less than 9?

A. $\sqrt{16}$

B. $\sqrt{30}$

C. $\sqrt{81}$

D. $\sqrt{90}$

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16. Which fraction is equivalent to $0.1\overline{66}$?

A. $\frac{16}{100}$

B. $\frac{16}{99}$

C. $\frac{1}{6}$

17. Which is an irrational number?

A. $\sqrt{\frac{1}{9}}$

B. $\sqrt{\frac{2}{9}}$

C. $\sqrt{\frac{4}{9}}$

18. Which number is an irrational number?

A. $\sqrt{2}$

B. $\frac{24}{37}$

C. $\sqrt{225}$

19. Which is a rational number?

D. $\frac{125}{100}$

A. $\sqrt{25}$

B. $\sqrt{30}$

C. $\sqrt{35}$

20. Which fraction is equal to 0.5?

A. $\frac{11}{20}$

B. $\frac{9}{20}$

C. $\frac{5}{11}$

D. $\frac{5}{9}$

21. Between which two points is $\sqrt{95}$ located on the number line below?

A. W and X

B. X and Y

C. Y and Z

22. Which fraction is equivalent to $0.1\overline{5}$?

A. $\dfrac{5}{33}$

B. $\dfrac{3}{20}$

C. $\dfrac{1}{6}$

23. Which set of numbers contains only integers?

A. $\left\{\dfrac{-1}{4},\ 0,\ ^-2\right\}$

B. $\left\{\sqrt{7},\ \dfrac{1}{3},\ \dfrac{-2}{5}\right\}$

C. $\{^-3,\ 0,\ 2\}$

24. Which set of numbers contains only integers?

A. $\{^-14,\ ^-0.3,\ 0,\ 2\}$

B. $\{^-10,\ 3,\ 5,\ 2.75\}$

C. $\left\{0,\ 1,\ 2,\ \dfrac{21}{4}\right\}$

D. $\{\sqrt{1},\ \sqrt{4},\ \sqrt{25},\ \sqrt{81}\}$

25. What is the **approximate** value of $\sqrt{63} + \sqrt{37}$?

A. 10

B. 14

C. 49