Quiz 8.1-8.7

Learning Target Report Card	Learning Target Common Core	4	3	2	1
The Number System					
Compares, orders and converts fractions, decimals and percents Problem Numbers: 1-3, 6-11	CC.6.NS.7 Understand ordering and of rational numbers.	NA	Regularly and accurately identifies rational and irrational numbers.	Identifies rational and irrational numbers, but with some errors.	Demonstrates difficulty when identifying rational and irrational numbers.
Demonstrates competency in all operations of rational numbers Problem Numbers: 1-5, 12-16	CC.7.NS.1 Adding and subtracting rational numbers CC.7.NS.2 Multiplication and division of rational numbers	NA	Regularly and accurately adds, subtracts, multiplies, and divides positive and negative integers, decimals and fractions.	Adds, subtracts, multiplies, and divides positive and negative integers, decimals and fractions with some mistakes.	Adds, subtracts, multiplies, and divides positive and negative integers, decimals and with many mistakes.
Measurement					
Calculates perimeter, area, volume, and surface area Problem Numbers: 4-5, 14-16, **17	CC.6.G.1 Find the area of right triangles, other triangles, special quadrilaterals, and polygons	Independently and consistently uses formulas to calculate the area and perimeter of composite figures that include circles or parts of circles.	Knows the formulas for perimeter, area, volume and surface area. Regularly and accurately uses the formulas to solve simple and real world problems with few mistakes.	Solves for perimeter and area correctly, but inconsistently uses the formulas in doing so, and/or has several mistakes in either setting up the problem or solving it.	Often inaccurately uses formulas to solve for the perimeter, area, volume or surface area.
Expressions and Equations					
Writes/solves for unknowns in one- variable equations Problem Numbers: 12-13	CC.6.EE.5 Understand solving an equation or inequality as a process of answering a question CC.6.EE.6 Use variables to represent numbers and write expressions	NA	Regularly and accurately solves for the Pythagorean Theorem using the correct equation.	Solves for the Pythagorean Theorem using the correct equation, but with some errors.	Demonstrates difficulty when using the Pythagorean Theorem to solve for a missing leg or hypotenuse of a right triangle.
Process standards					
Uses problem solving strategies Problem Numbers: All	Process Standard 1 Make sense of problems and persevere in solving them	Independently and consistently uses several problemsolving strategies. There is work evident on ALL problems, even when mental math is used.	Regularly with prompting the student uses problem-solving strategies. There is work evident on ALL problems, even when mental math is used.	Most of the time uses problem-solving strategies. There is work evident on most problems, even when mental math is used.	Rarely uses problem- solving strategies. There is work evident on few to no problems.

Learning Target	Learning Target	4	3	2	1	
Report Card Communicates clearly and makes connections Problem Numbers:	Common Core Mathematical Practice 3. Construct viable arguments and critique the reasoning	Independently and consistently makes connections between mathematic concepts and is able to	Makes connections between mathematic concepts and is able to communicate those connections in	Makes some, but not all connections between mathematic concepts and is able to communicate those	Is not making connections OR Makes some, but not all connections between mathematic concepts and is able to	
All	of others	communicate those connections in a variety of ways.	a variety of ways.	connections in the	communicate those connections in one way.	

Learner T ra its			4	
Produces legible work	4: NA	3	2	1
Accepts directions and follows rules.	4: NA	3	2	1

Quiz 8.1-8.7

Square Roots: Estimate each square root to the nearest integer. To demonstrate proficiency in this you must write the inequalities you used to estimate.

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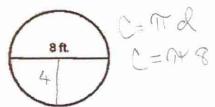
 $3.\sqrt{63}$

(563≈6

Circumference and Area of a Circle: Find the exact and approximate circumference and area of each circle. Round your approximate answers to the nearest tenth.

4. Circumference (exact)

Circumference (approx) 35. 1



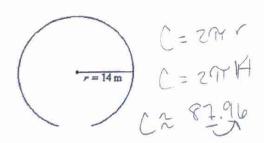
Area (exact) 167 ft 2

Area (approx) 50.3 Ft²

$$A = \pi r^{2}$$

$$A = \pi r^{4}$$

5. Circumference (exact) 287 m Circumference (approx) 88.0 m



Area (exact) 1967 m

Area (approx) 615.8 m

Rational and Irrational Numbers Identify each number as rational or irrational

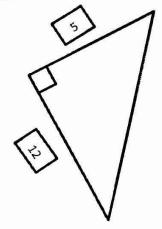
- 6. √100 =10 Rational
- 7. 3 1/5 Retions
- 8. -3. 24 Rations

- 9. 2.114 Rational
- 10.√2 treational
- 11. Describe the qualities that irrational numbers have. (What is the definition of an irrational number?)

	,
Icrotional numbers	are numbers that
Connot be with as the	ratio of Zintegers.
They have non-termina	ting 4 non capaty obdinals.

Pythagorean Theorem: Find the missing side length. You do not have to give me an exact answer Include Units in your answer

12.



$$\frac{3}{3} + \frac{1}{3} = \frac{2}{3}$$

$$\frac{3}{5} + \frac{1}{2} = \frac{2}{3}$$

$$\frac{3}{169} = \frac{2}{3}$$

$$\frac{1}{3} = \frac{2}{3}$$

$$\frac{1}{3} = \frac{2}{3}$$

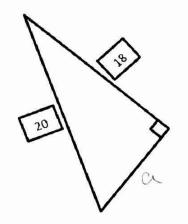
Explain how you know your answer is correct

The hypotenuse is 13 units long. I used the pythogoren theorem and substituted Soul 12 for the legs (a sold b)

I followed or our of operation and squared soul 12.

Their sum was 169 to slove for the hypotenuse I med to take the square root of 169 and the square root of E

13.



Show Work! | Lheck

$$a^{2}+b^{2}=c^{2}$$
 | $a^{2}+18^{2}=20$ | $a^$

Explain how you know your answer is correct

I used the Pythogorean theorem to Solve for the missy
Leg of the right transfer

I substituted 19 for b and 20 for the hypotenus. (C)

I squered both numbers

I isolated at by subtractly 324 from both sides

To find a I tookthe square rook of a and 76. This is
the invise operation of squares.

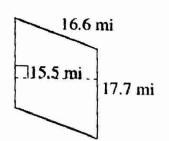
I sound that the missing side was a bout so, Tunity to Chucked my answer by substitutes at values into the pythogoren theorem again

37.4 m
36.3 m
25.5 m

Show Work! $A = \frac{1}{2}bh$ $A = \frac{1}{2} \cdot 25.5 \cdot 36.3$ $A = \frac{1}{2} \cdot 36.3$

Area: 462.825 m Perimeter: 102.8 m

15.



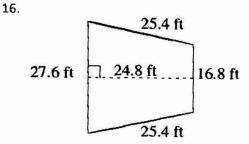
Show Work!

Show Work!

$$A = bh$$

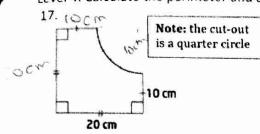
 $A = 17.7 \cdot 16.5$
 $A = 2(16.6+17.7)$
 $A = 2(16.6+17.7)$
 $A = 2(34.3)$
 $A = 2(34.3)$
 $A = 2(34.3)$

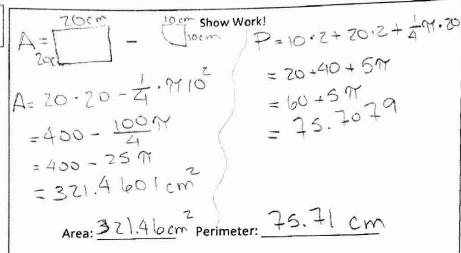
Area: 274.35m; Perimeter: 108.6m;



A= 1 h(b; +b2) Show Work! $A = \frac{1}{2} h(b; +bz)$ Show Work! P = S+S+S+5. $A = \frac{1}{2} \cdot 24.8(16.8+27.6)$ P = 25.4+16.8 $= \frac{1}{2} \cdot 24.8 \cdot 44.4$ $= \frac{1}{2} \cdot 24.8 \cdot 44.4$ $= 17.4 \cdot 44.4$ = 67.6 + 27.6 = 95.2=560.56 Area: 550.56ft Perimeter: 95.2 ft

Level 4: Calculate the perimeter and area of the figure. Round your answer to the nearest hundredth.





Explain how you know your answer is correct

For the area I found the area of the whole Square and then

Subtracted the green of the guarter circle (or of of the area of

the circle with a read is of 10)

For the perimeter I found the Sum of all the

Stright Sides. To find the lingth of the Eurive I found

what of of the circle was.

I the found the Sum of all the sides and the Eurive.