*REAL NUMBERS. Show work.

1. Write 450 as a product of prime numbers in exponential form.

450 =

Simplify $\sqrt{450}$ as a mixed radical.

 $\sqrt{450} =$

2. Write 200 as a product of prime numbers in exponential form.

200 =

Simplify $\sqrt[3]{200}$ as a mixed radical.

 $\sqrt[3]{200} =$

3. Simplify. $3\sqrt{10} \cdot 2\sqrt{6}$

4. Simplify. $-4(2\sqrt{18})(-3\sqrt{2})$

3

5. A cube has a volume of 1000 mm³. What is the length of an edge?

Edge =

Find the surface area of the cube.

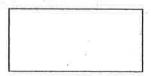
Surface Area =

A cube has a surface area of 96 cm ² What is the length of an edge?	4) (0)		Edge =	3
e e				
Find the volume of the cube.				
FI .	2		Volume =	5
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Explain why $-\sqrt{40}$ is a real number	r.		**************************************	
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Explain why $-\frac{4}{7}$ is a rational numb	er but not an integer.			
Explain why $-\frac{4}{5}$ is a rational numb	er but not an integer.	-	- 	
Explain why $-\frac{4}{5}$ is a rational numb	er but not an integer.			
Explain why $-\frac{4}{5}$ is a rational numb	er but not an integer.			ii
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Which values of x would make this				
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Which values of x would make this $\sqrt{2x+10}$ 0. Which is false and why? a) $-\sqrt{64} = -8$ b) $\sqrt[3]{-64} = -4$				
Which values of x would make this $\sqrt{2x+10}$ Which is false and why? a) $-\sqrt{64} = -8$ b) $\sqrt[3]{-64} = -4$ c) $\sqrt[3]{-8} = 2$				
Which values of x would make this $\sqrt{2x+10}$ 0. Which is false and why? a) $-\sqrt{64} = -8$ b) $\sqrt[3]{-64} = -4$				

**EXPONENTS.	Show work
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1. Simplify with positive exponents only. $\frac{(-4x)^2}{2x \cdot 3y^4}$

2. Simplify with positive exponents only. $\frac{6x^8}{7y^{-5}} \cdot \frac{-y^5}{3x}$



3. Write $\sqrt{m^5} \cdot \sqrt[3]{m^4}$ in exponential form.



Simplify in exponential form.



4. Write $\sqrt{y} \cdot \sqrt{y^4} \cdot \sqrt{y^8}$ in exponential form.



Simplify in exponential form.

	*

5. Simplify with positive exponents only. $\left(\frac{5x}{2}\right)^{-2}$

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Simplify with positiv	we exponents only. $\left(\frac{1}{6xy}\right)^{-3}$		6 5 12		
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Simplify with positiv	we exponents only. $\left(10m^{\frac{1}{2}}\right)$	$3m^{\frac{5}{2}}$) ³	enter de la companya		
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9 8					
Write $\sqrt{x^6} \cdot \sqrt[3]{x}$ wi	ith exponents and simplify. W	Vrite you answer	in radical fo	rm.	
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Write $\frac{x}{\sqrt[3]{x}}$ with exp	onents and simplify. Write y	ou answer in radi	cal form.		
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Simplify as a radical.	x 2				
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