	yaser almohaws 2 <b>d:</b> 11/28/14 10:26pm	Instructor: fahad aljabr Course: MATH-001: Fur Math 11415 Book: Bittinger: Introduc Intermediate Algebra, 4e		
1.	expression is unde	or which the rational fined.	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.	
	$\frac{w-8}{9}$		<ul> <li>A. The rational expression is not defined for w = .</li> <li>(Use a comma to separate answers as</li> </ul>	
			needed.) &B. The rational expression is defined for every real number.	
2.	Solve using the pr 0 = w(w+5)	inciple of zero products.	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.	
			<ul> <li>WA. w = 0, -5 (Use a comma to separate answers as needed.)</li> <li>B. There is no solution.</li> </ul>	
3.		Find the LCM of $x^9 - 6x^8 + 9x^7$ , $3x^2 - 27$ and $5x + 15$ . The LCM is $15x^7(x-3)(x-3)(x+3)$ .		
4.	Divide and simplify $\frac{u^2 - 25}{9u + 45} \div \frac{3u^2 - 3}{27u}$ $\frac{u^2 - 25}{9u + 45} \div \frac{3u^2 - 3}{27u}$	30u + 75 + 135		

_		Instructor: fahad aljabr Course: MATH-001: Fundamentals of Math 11415 Book: Bittinger: Introductory and Intermediate Algebra, 4e fic island has a base half as long as its d has an area of 144 m <sup>2</sup> . Find the base			
					The height of the triangular traffic island is 24 m. The base of the triangular traffic island is 12 m.
6.	expression is unde	for which the rational fined.		correct choice below and, if , fill in the answer box to complete ce.	
	$\frac{x^2+13}{x^2-5x-6}$			e rational expression is not defined $x = 6, -1$ .	
			(Us	se a comma to separate answers as eded.)	
				e rational expression is defined for ery real number.	
7.	Multiply and simplify.				
	$\frac{64d^2}{3d^2 - 6d + 3} \cdot \frac{3d - 3}{8d}$				
	$\frac{64d^2}{3d}$	$\frac{1-3}{2} = \frac{8d}{2}$			

 $\overline{3d^2 - 6d + 3} \cdot \overline{8d} = \overline{d - 1}$ 

(Type exponential notation with positive exponents.)

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8.	Solve.		Select the correct choice below and, if necessary, fill in the answer box to complete		
	$s^2 + 8s + 15 = 0$		your choice.		
			✓A. The solution(s) is/are $s = -5, -3$ . (Type an integer or a simplified fraction. Use a comma to separate answers as needed. Type each solution only once.)		
			$\bigcirc$ B. There is no solution.		
	How many handsl	How many handshakes are possible? 4950			
10.	Simplify by removing factors of 1.				
	$\frac{2p^2 + 10p + 12}{4p^2 - 12p - 40}$				
	The simplified for	m is $\frac{p+3}{2(p-5)}$ .			
11.	A rectangular table is four times as long as it is wide. If the area is 196 $ft^2$ , find the length and the width of the table.				
	The width of the table is $7$ ft.				
	The length of the	table is 28 ft.			

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12.	Find all numbers for which the rational expression is undefined. $-\frac{21}{16z}$	Select the correct choice below and, if necessary, fill in the answer box to complete your choice. $\checkmark$ A. The rational expression is not defined for $z = 0$ . (Use a comma to separate answers as			
		<ul><li>needed.)</li><li>OB. The rational expression is defined for every real number.</li></ul>			
13.	If there are n teams in a league and each team plays each other twice in a season number of games is given by the polynomial $n^2 - n = N$ . A women's basketball l plays a total of 72 games. How many teams are in the league?				
	There are 9 teams in the league.				
14.	The product of two consecutive even integers is 360. Find the integers.				
	The positive set of correct answers is 20,18. (Use a comma to separate answers as needed.)				
	The negative set of correct answers is – (Use a comma to separate answers as nee				
15.	Find all numbers for which the rational expression is undefined.	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.			
	$\frac{1}{8w+7}$	<ul> <li>♂A. The rational expression is not defined for w = -<sup>7</sup>/<sub>8</sub>.</li> <li>(Use a comma to separate answers as needed.)</li> <li>○B. The rational expression is defined for every real number.</li> </ul>			
16.	Solve by factoring and using the principle	e of zero products. Remember to check.			

 $0 = 2x + x^2 + 1$ 

x = -1 (Type an integer or a fraction.)

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17.	Find all numbers to expression is under $\frac{6}{y-1}$	for which the rational fined.	Select the correct choice below and, if necessary, fill in the answer box to complete your choice. $\swarrow$ A. The number for which the rational expression is undefined is $y = 1$ .	
			OB. The expression is defined for all values of y.	
18.	Solve. $s^2 = 16$		Select the correct choice below and, if necessary, fill in the answer box to complete your choice.	
			A. The solution is $s = 4, -4$ . (Use a comma to separate answers as needed. Type each solution only once.)	
			$\bigcirc B$ . There is no solution.	
19.	Solve using the pr $3t(5t-3)(3t-1) =$	inciple of zero products. = 0	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.	
			$\overset{\text{(A.)}}{=} 0, \frac{3}{5}, \frac{1}{3}$	
			(Type an integer or a simplified fraction. Use a comma to separate answers as needed.)	
			$\bigcirc B$ . There is no solution.	
20.	expression is unde	for which the rational efined.	Select the correct choice below and, if necessary, fill in the answer box to complete your choice.	
	$\frac{\mathrm{m}^3-5\mathrm{m}}{\mathrm{m}^2-64}$		<ul> <li>A. The rational expression is not defined for m = 8, -8.</li> <li>(Use a comma to separate answers as needed.)</li> </ul>	
			OB. The rational expression is defined for every real number.	