Name:		Class:		Date:	ID: A		
code cal	culation hon	nework lesson 5 & 6		Instructor; J.DeMello			
Multiple ( Identify th		st completes the statement of	r answer	s the question.			
1.	Determine the maximum number of conductors permitted for 14 AWG THW conductors in a 4" x 1-1/2" octagonal metal box in accordance with Article 314.						
	a. 5 b. 7		c. d.	9			
2.	1-1/2" square	maximum number of condubox in accordance with Artic		rmitted for 12 AWG THHN conduc	etors in a 4-11/16" x		
	a. 9 b. 11		C.	13 15			
	0. 11		a.	13			
3.	box and splice	to two 14 AWG conductors ermine the minimum box volace.	leaving olume re	lighting outlet box. Two 14 AWG the box and two 16 AWG fixture was quired for this installation. Calculated 18.0 in.^3 20.5 in.^3	vires that supple a		
4.	What is the minimum cubic inch volume (or capacity) of a 3" x 2" x 2-1/2" device metal box in accordance with Article 314?						
	a. 21.5 cubic			15.5 cubic inches			
	b. 30.3 cubic	inches	d.	12.5 cubic inches			
5.	an installation and four 10 Av a. (4 x 1-1/2	in which two 12 AWG THH WG THHN copper conducto	IN coppers are ins	the minimum size standard metal street conductors, two 14 AWG THHN stalled in the same box.  (4 x 1-1/8) in. square metal box  (4 x 2-1/2) in. square metal box	square box needed for copper conductors,		
6.	· ·						
	a. 20"		d.	32"			
	b. 24" c. 28"		e.	36"			
7.	The minimum length (L) and width (W) of a pull box having an angle pull, with one three-inch conduit coming in and one three-inch conduit leaving is The conductors are larger than 4 AWG and will not be spliced.						
	a. 12"		d.	24"			
	b. 15" c. 18"		e.	30"			
	c. 18"						

Name	:	·····		ID: B			
	8.	What is the maximum number of (	AWG THW copper conduc	tors permitted in a one-inch EMT?			
		a. 2	c. 4				
		b. 3	d. 5				
	9.	What is the maximum number of 2/0 AWG THW aluminum compact conductors permitted in a					
	two-and-a-half-inch PVC conduit, Schedule 80?						
		a. 7	c. 9				
		b. 8	d. 10				
10.		Eight 12 AWG THW copper, current-carrying conductors and one 12 AWG THW copper equipment grounding conductor are installed in the same EMT. What is the minimum size EMT required for this installation?					
		a. 1/2 in.	c. 1 in.				
		b. 3/4 in.	d. 1-1/4 in.				
1	11.	Determine the total available area, in square inches, for the following raceway: 1 in. EMT with 2 wires (31%)					
		a. 0.916	c. 0.168				
		b. 1.150	d. 0.268				
	12	What is the minimum size rigid P	C conduit Schedule 80 per	mitted for the installation of four 4/0 AWG			

THW copper conductors and one 1 AWG bare copper equipment grounding conductor?

c. 2-1/2 in. PVC, Schedule 80

d. 3 in. PVC, Schedule 80

a. 1-1/2 in. PVC, Schedule 80

b. 2 in. PVC, Schedule 80