Assignment: Ch. 4, Sections 1,2

Student:Instructor:Megan RourkeDate:Course:MATH 1500 - Online

1. Solve the proportion equation.

$$\frac{x}{30} = \frac{7}{15}$$

(Type a whole number or a decimal.)

2. Solve the proportion equation.

$$\frac{3}{P} = \frac{18}{7}$$

(Type a whole number or a fraction.)

3. Solve the proportion equation.

$$\frac{A}{2.2} = \frac{17}{10}$$

A = (Type an integer or a decimal.)

4. Solve the proportion equation.

$$\frac{7 \text{ ft 6 in.}}{2 \text{ ft 3 in.}} = \frac{L}{4 \text{ ft 6 in.}}$$

L= ft

(Type a whole number or a decimal.)

5. If 22 tapered pins can be machined from a steel rod 11 ft long, how many tapered pins can be made from a steel rod 4 ft long?

tapered pins can be made from a steel rod 4 ft long.

(Type a whole number or a decimal.)

6.	If you earn \$566.80 for a 26-hour work week, how much would you earn for a 40-hour work week at the same hourly rate?			
	You would earn \$ for a 40-hour work week.			
	(Type a whole number or a decimal.)			
7.	To prepare a pesticide spray, 2.5 lb of BIOsid is added to 24 gal of water. How much BIOsid should be added to a spray tank holding 305 gal?			
	Blosid should be added to a spray tank holding 305 gal. (Round to the nearest tenth as needed.)			
8.	The ideal air to fuel ratio for an engine is 14.7:1. If a vehicle burns 7 lb of fuel, how many pounds of air should it draw to achieve the ideal ratio?			
	The vehicle should draw Ib of air to achieve the ideal ratio. (Round to the nearest whole number as needed.)			
9.	A crowbar 27 in. long is pivoted 6 in. from the end. What force must be applied at the long end in order to lift a 500 lb object at the short end?			
	A force of lb must be applied at the long end in order to lift a 500 lb object at the short end. (Round to the nearest tenth as needed.)			
10	A 30-tooth gear on a motor shaft drives a larger gear having 54 teeth. If the motor shaft rotates at 900 rpm, what is the speed of the larger gear?			
	The speed of the larger gear is rpm. (Type a whole number or a decimal.)			
11.	If 18 assemblers can complete a certain job in 4 hours, how long will the same job take if the number of assemblers is cut back to 12?			
	It will take 12 assemblers hours to complete the job. (Type a whole number or a decimal.)			
12	If 20 assemblers can complete a certain job in 4 hours, how long will the same job take if the number of assemblers is cut back to 8?			
	It will take 8 assemblers hours to complete the job. (Type a whole number or a decimal.)			

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1. 14		
2. 7 6		
3. 3.74		
4. 15		
5. 8		
6. 872		
7. 31.8		
8. 103		
9. 142.9		
10. 500		
11. 6		
12. 10		