Math 101 – Chapter 4

HOMEWORK ASSIGNMENTS

(with the exception of Sections 4.7, all homework assignments should be submitted electronically by means of KC Blackboard)

Section 4.1 Problems: 1, 2, 3, 4, 5, 14, 21, 23, 24, 26, 28, 29, 30, 33, 34, 43, 44, 47, 56, 57, 60, 64, 65, 68, & 73

Section 4.2 Problems: 1, 3, 4, 7, 8, 10, 14, 16, 17, 19, 20, 23, 24, 27, 28, 31, 35, 39, 41, 47, 50, 52, 53, 54, & 56

Section 4.3 Problems: 3, 4, 5, 7, 8, 9, 10, 11, 13, 14, 16, 17, 19, 20, 33, 37, 39, 42, 43, 45, 46, 47, 48, 50, & 55

Section 4.4 Problems: 2, 3, 6, 7, 10, 11, 14, 15, 21, 22, 25, 26, 39, 45, 49, 50, 51, 52, 53, 54, 55, 57, 61, 74, & 76

Section 4.5 Problems: 4, 5, 6, 10, 11, 12, 16, 17, 18, 20, 25, 26, 27, 31, 32, 33, 49, 50, 51, 67, 68, 71, 72, 73, & 74

Section 4.6 Problems: 1, 3, 5, 6, 8, 10, 11, 12, 13, & 14

Section 4.7 THESE PROBLEMS MUST BE WORKED OUT IN DETAIL ON THE SHEETS PROVIDE BY THE INSTRUCTOR.

Problems: 13a, 14b, 18, 19, 21, 22, 28, 33, 37, & 42
[2.5 points TOTAL – each step = .5 pnt] **Problem 13a**

Find the area of the stamp.
The following problem must be worked out in detail using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt] **Problem 14b**

Find the perimeter of the landing area of the pole vault pit.
The following problem must be worked out \textit{in detail} using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt]  \textbf{Problem 18}

\textbf{Gas Mileage.} Henry filled his Honda’s gas tank and noted that the odometer read 18,943.2. After the next filling, the odometer read 19,306.2. It took 13.2 gallons to fill the tank. How many miles per gallon did the car get?
The following problem must be worked out in detail using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt] **Problem 19**

*Chemistry.* The water in a filled tank weighs 748.45 lb. One cubic foot of water weighs 62.5 lb. How many cubic feet of water does the tank hold?
The following problem must be worked out in detail using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt] Problem 21

Find the perimeter.
The following problem must be worked out in detail using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt] Problem 22

Find the perimeter.
The following problem must be worked out \textit{in detail} using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt]  \textbf{Problem 28}

\begin{center}
\includegraphics[width=0.5\textwidth]{image.png}
\end{center}

Find length $d$. 

Page 7
The following problem must be worked out in detail using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt]  Problem 33

A rectangular yard is 20 ft by 15 ft. The yard is covered with grass except for an 8.5 ft square flower garden. How much grass is in the yard?
The following problem must be worked out in detail using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt] **Problem 37**

The dimensions of the World Cup soccer field are 114.9 yd by 74.4 yd. The dimensions of a standard football field are 120 yd by 53.3 yd. How much greater is the area of a World Cup soccer field?
The following problem must be worked out in detail using the FIVE STEPS FOR PROBLEM SOLVING strategy described in the section. If the work is not complete and detailed, NO CREDIT will be awarded.

[2.5 points TOTAL – each step = .5 pnt] **Problem 42**

*Summer Work.* Zachary worked 53 hours during a week one summer. He earned $7.50 per hour for the first 40 hours and $11.25 per hour for overtime (hours exceeding 40). How much did Zachary earn during the week?