All math problems address TEKS 130.246. Counseling and Mental Health.

(1) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:

(F) identify socioeconomic factors that influence mental health and care.

**Question 1.** If a person goes to counseling and is responsible for a $35 per weekly visit co-pay up to $300 annually, how many weeks will the patient have to pay?

- a. 8
- b. 9
- c. 10
- d. 11
(1) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:

(F) identify socioeconomic factors that influence mental health and care.

**Question 2.** Dr. Chavez uses a sliding scale to determine how much clients pay based on their income. He charges $110 per visit or 5% of their monthly income, depending on which is lower. If someone who makes $1,600 per month seeks counseling, how much can the patient expect to pay per visit?

a. $ 80  
b. $110  
c. $160  
d. $320

(3) The student researches career options and the preparation necessary for employment in mental health. The student is expected to:

(E) interpret, transcribe, and communicate mental health vocabulary.

**Question 3.** Jesse wants to purchase workbooks for each member of the counseling groups he facilitates. The book costs $25 each when bought individually. If he buys more than 10, he can get a 15% discount and free shipping. Not including sales tax, how much will it cost to buy 14 books?

a. $ 21.25  
b. $212.50  
c. $297.50  
d. $358.25
(6) The student analyzes the technology related to information services. The student is expected to:

(A) review the processes for collection and dissemination of health care data.

**Question 4.** Thirty-five per cent (35%) of people who seek counseling make over $60,000 per year. Which equation could be used to find $T$, the total number of people to receive counseling, where $p$ stands for people receiving counseling who make over $60,000 per year?

a. $T = 35p$

b. $T = .35p$

c. $p = .35T$

d. $T = (1 - .35)p$
(6) The student analyzes the technology related to information services. The student is expected to:

(A) review the processes for collection and dissemination of health care data.

**Question 5.** Analyze the chart below.

![Populations Served](chart)

If the counseling center reporting above saw a total of 256 clients, how many were in the middle income bracket?

- a. 41
- b. 69
- c. 82
- d. 105
(6) The student analyzes the technology related to information services. The student is expected to:

(A) review the processes for collection and dissemination of health care data.

**Question 6.** Refer to the chart in question 5. Which of the following is a reasonable conclusion that can be drawn from the chart?

- a. People in the middle income bracket have the most problems.
- b. Half of all clients are in the middle income bracket.
- c. People in the middle income bracket sought counseling the most.
- d. Counseling is too expensive for people in the lower income bracket.

(1) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:

(F) identify socioeconomic factors that influence mental health and care.

**Question 7.** Dr. Peterson uses a billing agency that takes 9% of every bill the company processes. If he charges $120 per visit and saw 32 clients last week, how much money did the billing agency make from his clients last week?

- a. $345.60
- b. $426.67
- c. $1,358.29
- d. $3,840.00
(1) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:

(F) identify socioeconomic factors that influence mental health and care.

**Question 8.** The Better Life Rehabilitation Clinic’s monthly budget is shown below.

If the clinic spends $2,750 per month on food, how much does it spend on salaries?

- a. $4,900
- b. $8,025
- c. $12,250
- d. $25,075
(1) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:

(F) identify socioeconomic factors that influence mental health and care.

**Question 9.** According to the chart in #8, which of the following is **NOT** a true statement?

a. Insurance makes up the smallest portion of the monthly budget.
b. Rent is the second largest portion of the budget.
c. Miscellaneous, utilities, and transportation make up 14% of the budget.
d. Salaries and insurance make up 50% of the budget.

(1) The student applies mathematics, science, English language arts, and social studies in health science. The student is expected to:

(F) identify socioeconomic factors that influence mental health and care.

**Question 10.** According to the chart in #8, what is the total monthly budget if utilities are $950 per month?

a. $ 3,800
b. $ 8,300
c. $15,450
d. $23,750
Answer Key

1) B
2) A
3) C
4) D
5) D
6) C
7) A
8) C
9) D
10) D