

Hospitality and Tourism

Practicum in Hospitality Services

Multiple Choice Math Assessment Problems



All math problems address TEKS 130.229. Practicum in Hospitality Services.

(4) The student applies academics with career readiness skills. The student is expected to:

(A) apply mathematical skills to business transactions.

Question 1. Isaac is leasing a copy machine for his business. He pays \$49 per month plus \$.05 for every 10 copies. How much does he pay for the copier in one year if he averages 3,000 copies per month?

- a. \$ 64
- b. \$192
- c. \$384
- d. \$768

(2) The student develops skills for success in the workplace. The student is expected to:

(A) comprehend and model appropriate grooming and appearance for the workplace.

Question 2. Marcus wants to find out how many outfits he can create from the business clothes he currently has. If he needs to wear slacks, a dress shirt, and tie every day and he has 4 ties, 5 dress shirts, and 4 pairs of slacks, how many weeks can he go without repeating the same outfit?

- a. 11
- b. 13
- c. 40
- d. 80

(4) The student applies academics with career readiness skills. The student is expected to:

(A) apply mathematical skills to business transactions.

Question 3. Julie, a hotel manager, is running a special where guests receive a discount of 15% for the first three nights of their stay. If a guest stays for 7 nights and the regular rate is \$79.99 per night, what will be the guest's final bill before taxes?

- a. \$203.97
- b. \$319.96
- c. \$529.93
- d. \$559.93

(4) The student applies academics with career readiness skills. The student is expected to:

(B) develop a personal budget based on career choice.

Question 4. Mr. Mendes is excited about getting a 12% raise to his \$3500 monthly salary. His wife has been talking about wanting to go on a vacation that will cost \$3,000 for the two of them to go. How many months will he need to save his 12% raise in order to be able to pay for the vacation in full?

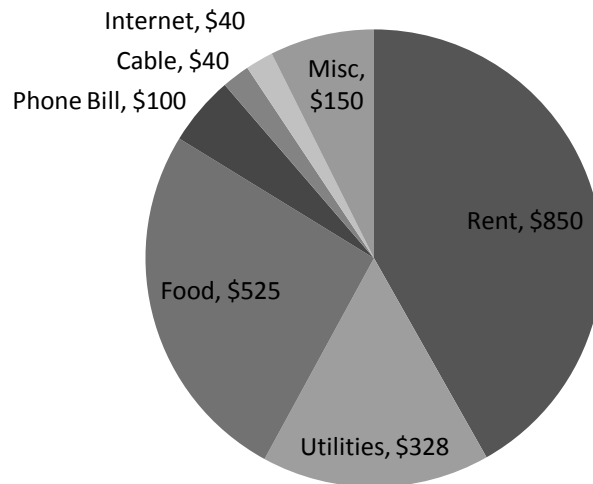
- a. 2 months
- b. 7 months
- c. 11 months
- d. 16 months

Refer to the chart below for #5-8.

(4) The student applies academics with career readiness skills. The student is expected to:

(B) develop a personal budget based on career choice.

Shannon's Budget



Question 5. Shannon is considering adding a clothing budget for every month. If she decides to add a clothing category with \$50 in it each month, what would be the new total budget?

- a. \$2,033
- b. \$2,083
- c. \$2,133
- d. \$2,183

(4) The student applies academics with career readiness skills. The student is expected to:

(B) develop a personal budget based on career choice.

Question 6. Shannon heard a budget expert on the news say that no more than 30% of one's entire budget should be spent on rent. What percentage of Shannon's original budget is spent on rent?

- a. 28%
- b. 31%
- c. 42%
- d. 45%

(4) The student applies academics with career readiness skills. The student is expected to:

(B) develop a personal budget based on career choice.

Question 7. Currently 70% of Shannon's income is used in her budget. How much income does she have left over each month to put into savings, rounded to the nearest dollar?

- a. \$557
- b. \$610
- c. \$676
- d. \$735

(4) The student applies academics with career readiness skills. The student is expected to:

(B) develop a personal budget based on career choice.

Question 8. Shannon's company downsized. She did not lose her job, but she had to take a pay cut and now makes \$2000 per month. If she wants to put \$300 into savings each month, how much does she need to cut from her original budget?

- a. \$ 333
- b. \$ 971
- c. \$1,700
- d. \$2,033

(4) The student applies academics with career readiness skills. The student is expected to:

(A) apply mathematical skills to business transactions.

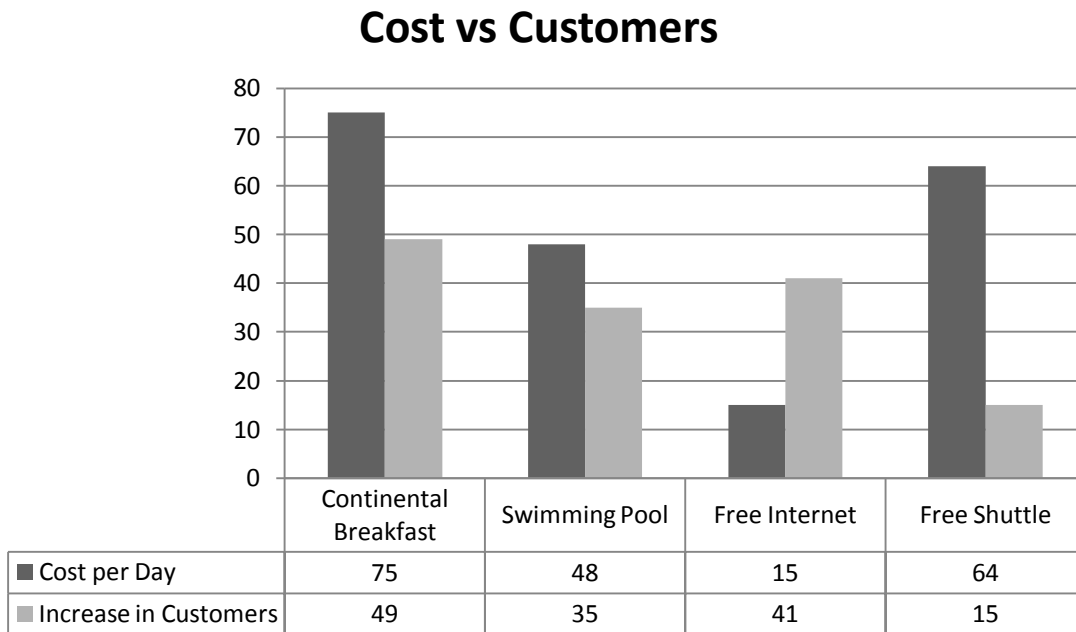
Question 9. The Home Away Hotel is thinking of adding a complimentary breakfast to its list of services. It costs x dollars to provide breakfast every morning, but the service is projected to increase their p profit 30%. Which inequality could be used to determine if this decision would be a successful business venture?

- a. $x \leq 30p$
- b. $x \geq 30p$
- c. $x \leq .30p$
- d. $x \geq .30p$

(4) The student applies academics with career readiness skills. The student is expected to:

(C) interpret data from documents such as tables, charts, and graphs to estimate and find solutions to problems.

Question 10. Analyze the chart below.



Which of the following statements is a reasonable conclusion from the chart?

- Continental breakfast is the best service to offer.
- Swimming pools are the main reason people choose a hotel.
- Free internet is the cheapest service.
- Nobody likes the free shuttle ride.

Answer Key

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