

Hospitality and Tourism Practicum in Culinary Arts Multiple Choice Math Assessment Problems



All math problems address TEKS 130.227. Practicum in Culinary Arts.

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

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

(8) The student evaluates personal attitudes and work habits that support career retention and advancement. The student is expected to:

(F) determine effective money management and financial planning techniques.

Question 1. Nicole has taken an internship that will hopefully lead into a job where she will make \$1,500 a month after taxes. She wants to know if this will be enough money for her to pay half of her rent r and all of her eating expenses f . Which inequality could be used to determine if she has enough money?

a. $r + f < 1500$

b. $r + f > 1500$

c. $\frac{r}{2} + f < 1500$

d. $\frac{r}{2} + f > 1500$

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

(H) prioritize work to fulfill responsibilities and meet deadlines.

Question 2. Marlin needs to get 300 hours of experience in a restaurant this semester. The Okay Café tells Marlin that he could work for them from 11:00 AM to 1:00 PM Monday through Thursday. At this rate how many weeks will it take to complete his 300 hours?

- a. 18 weeks
- b. 38 weeks
- c. 85 weeks
- d. 150 weeks

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

(H) prioritize work to fulfill responsibilities and meet deadlines.

Question 3. Marlin needs 200 hours of work experience at a restaurant this semester. The Okay Café tells Marlin that he could work for them from 11:00 AM to 1:30 PM Monday through Friday. At this rate, will he complete the 200 hours before the 18 week semester is over?

- a. Yes, he will complete the hours after 12 weeks.
- b. No, he will not complete the hours before the semester ends.
- c. Yes, he will complete the hours after 16 weeks.
- d. Not enough information to solve.

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

(A) apply mathematical skills to business transactions.

(8) The student evaluates personal attitudes and work habits that support career retention and advancement. The student is expected to:

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Question 4. The Small Business Initiative is trying to increase the number of restaurants in a certain area of town. The organization is willing to pay 40% percent of your rent if you agree to be in business in the area for at least two years. Which equation could be used to find the money you would save S on a property's monthly rent r during the two years you are in the property?

a. $S = .40r + 24$

b. $S = .40r(24)$

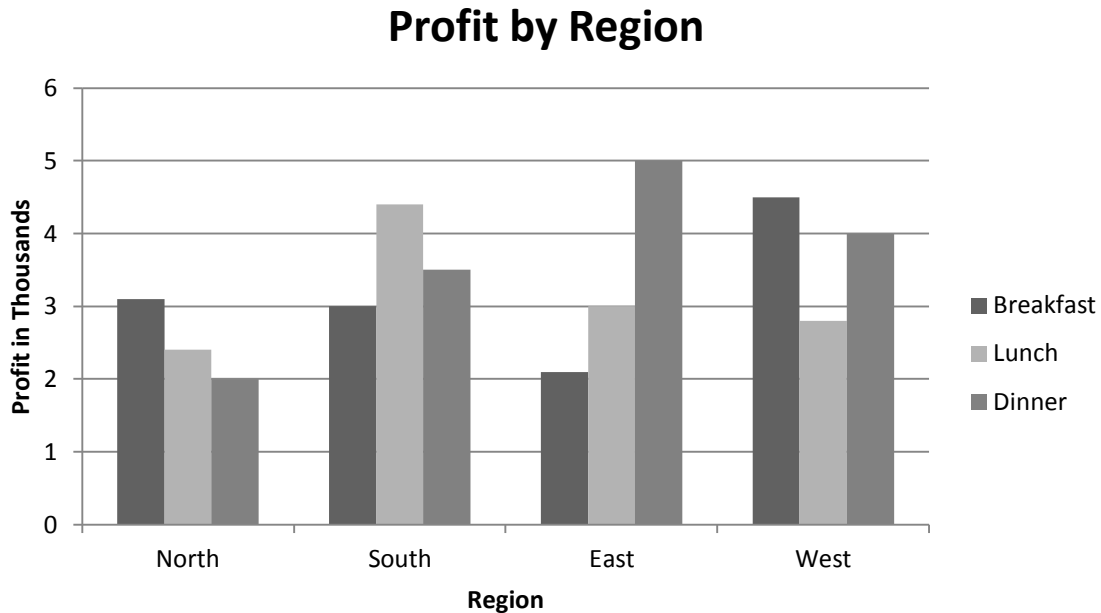
c. $S = .40r$

d. $S = .60r$

(4) The student applies academics with job-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 5. Analyze the chart below.



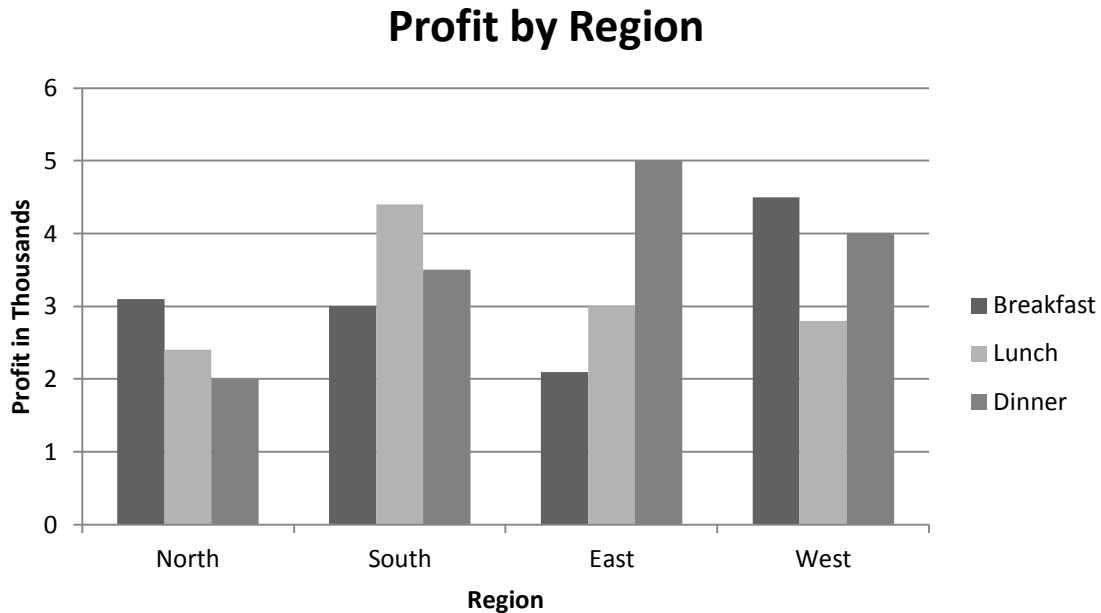
Which of the following statements is best supported by the graph?

- The South region is the best place to put a breakfast restaurant.
- The East is the best region start a new restaurant.
- People don't eat dinner in the North region.
- The North has the lowest average profit.

(4) The student applies academics with job-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 6. Analyze the chart below.

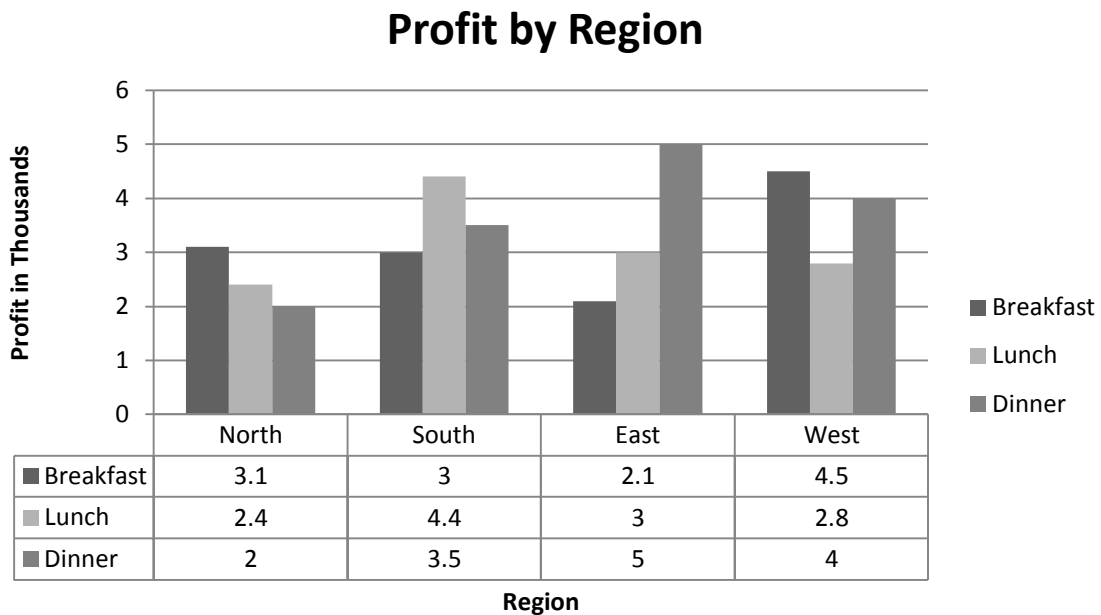


Which of the following statements is **not** supported by the chart?

- The South is the most profitable lunch region.
- The East is the most profitable place to start a restaurant.
- The West is the most profitable breakfast spot.
- The North's most profitable time is breakfast.

- (4) The student applies academics with job-readiness skills. The student is expected to:
- (A) apply mathematical skills to business transactions.
 - (C) interpret data from documents such as tables, charts, and graphs to estimate and find solutions to problems.

Question 7. Analyze the chart below.



What is dinner’s mean profit?

- a. \$1,450
- b. \$3,175
- c. \$3,625
- d. \$4,875

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

Question 8. Based on the averages on the chart in #7 based on averages which region would be the best place to own a restaurant?

- a. North
- b. South
- c. East
- d. West

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(A) apply mathematical skills to business transactions.

Question 9. Malcolm is going to expand his restaurant business. He is opening a second restaurant and predicts that it will do 30% better than his original restaurant during the first six months. Which equation could be used to find the profit P per month of the new location if you know the old restaurant averages x profit per month?

- a. $P(x) = .30x$
- b. $P(x) = .70x$
- c. $P(x) = (1 + .30)x$
- d. $P(x) = x + 30$

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Question 10. Beth has a steady income from managing a restaurant and now she needs to make a personal monthly budget. She wants to spend no more than 55% of her income on her rent and car payment every month. If she makes \$30,000 per year, up to how much should she spend per month on her rent and car payment?

- a. \$ 1,375.00
- b. \$ 2,500.00
- c. \$ 8,250.00
- d. \$16,500.00

Answer Key

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