EVENTFUL DAY

Rubric and Sample Responses

Question 1

RUBRIC

Score	Description
3	Response demonstrates thorough understanding of unit pricing in the context of cost per person. • Student correctly identifies the cost per person. (1 point) • Student thoroughly explains or shows how to find the cost per person. (2 points)
0	The student's response is mostly or all incorrect.

SAMPLE RESPONSE

Scenario I: Wedding

Package A: Total Cost: $6700, Cost Per Person: $33.50

Package B: Total Cost: $13200, Cost Per Person: $66.00

Scenario II: Fundraiser

Package A: Total Cost: $2,855, Cost Per Person: $5.71

Package B: Total Cost: $4,010, Cost Per Person: $8.02

Scenario III: Conference

Package A: Total Cost: $31,100, Cost Per Person: $15.55

Package B: Total Cost: $36,600, Cost Per Person: $18.30

Scenario IV: Prom

Package A: Total Cost: $12,350, Cost Per Person: $35.29

Package B: Total Cost: $21,400, Cost Per Person: $61.14

Question 2

RUBRIC

Score	Description
4	Response demonstrates thorough understanding of finding the percentage of a quantity. • Student correctly finds the donor's cost and the client's cost. (2 points) • Student thoroughly explains or shows how to find percentages. (2 points)
0	The student's response is mostly or all incorrect.

SAMPLE RESPONSE

Scenario I: Wedding
Donor: $13,200 x 0.30 = $3,960
Client: $13,200 x 0.70 = $9,240

Scenario II: Fundraiser
Donor: $4010 x 0.03 = $1,203
Client: 4010 x 0.70 = $2,807

Scenario III: Conference
Donor: $36,600 x 0.03 = $10,980
Client: $36,600 x 0.70 = $25,620

Scenario IV: Prom
Donor: $21,400 x 0.03 = $6,420
Organizer: 21,400 x 0.70 - $14,980

Question 3

RUBRIC

Score	Description
4	Response demonstrates thorough understanding of finding the percentage of a quantity and unit rates. • For each part, award 1 point for a correct answer. • For each part, award 1 point for a strategy/explanation.
0	The student's response is mostly or all incorrect.

SAMPLE RESPONSE

New total cost ÷ total number of people = cost per person

Scenario I: Wedding
with Gratuity: 1.05 x 13,200 = $13,860; 13,860 ÷ 200 = $69.30 per person

Scenario II: Fundraiser
with Gratuity: 1.05 x 4010 = $4,210.50; 4,210.50 ÷ 500 = about $8.42 per person

Scenario III: Conference
with Gratuity: 1.05 x 35,600 = $38.430; 38.430 ÷ 2000 = about $19.22 per person

Scenario IV: Prom
with Gratuity: 1.05 x 21,400 = $22,470; 22,470 ÷ 350 = $64.20 per person

Question 4

RUBRIC

Score	Description
4	Response demonstrates thorough understanding of finding the percentage of a quantity and unit rates. • Award 1 point for correct answer. • Award 3 points for correct strategy.
0	The student's response is mostly or all incorrect.

SAMPLE RESPONSE

NOTE: The computations show the costs for Package A. Students may use the costs for package B. The percentages are the same.

Scenario I: Wedding
200 – (200 x 0.20) = 160
6700 ÷ 160 = 41.88
41.88 ÷ 33.50 = 1.25
No. The cost per person will increase by 25%.

Scenario II: Fundraiser
500 – (500 x 0.20) = 400
2855 ÷ 400 = 7.14
7.14 ÷ 5.71 = 1.25
No. The cost per person will increase by 25%.

Scenario III: Conference
2000 – (2000 x 0.20) = 1600
31,100 ÷ 1600 = 19.44
19.44 ÷ 15.55 = 1.25
No. The cost per person will increase by 25%.

Scenario IV: Prom
350 – (350 x 0.20) = 280
12,350 ÷ 280 = 44.11
44.11 ÷ 35.29 = 1.25
No. The cost per person will increase by 25%.

Question 5

RUBRIC

Score	Description
6	Response demonstrates thorough understanding of unit rates and computing simple percentages. Student correctly computes the new cost per person (part a) and the percentage increase (part b). (2 points) Student thoroughly explains or shows how to find each answer. (2 points for each part)
0	The student's response is mostly or all incorrect.

SAMPLE RESPONSE

First, find the cost per person with the increased facility charge.

Next, find the difference between the new cost per person and the old cost per person and determine the percent increase using the following proportion.

Scenario I: Wedding
6700 +100 = 6800 (new cost of event)
6800 ÷ 200 = 34 (new cost per person)
33.50 – 34 = 0.50 (increase in cost per person)
0.50 ÷ 33.50 = 0.0149 (percent increase)
Increase is $0.50 per person, 1.5% increase

Scenario II: Fundraiser
2855 +100 = 2955 (new cost of event)
2955 ÷ 500 = 5.91 (new cost per person)
5.91 – 5.71 = 0.20 (increase in cost per person)
0.20 ÷ 5.71 = 0.035 (percent increase)
Increase is $0.20 per person, 3.5% increase

Scenario III: Conference
31,100 + 200 = 31,300 (new cost of event)
31,300 ÷ 2000 = 15.65 (new cost per person)
15.65 – 15.55 = 0.10 (increase in cost per person)
0.10 ÷ 15.55 = 0.006 (percent increase)
Increase $0.10 per person, 0.6% increase

Scenario IV: Prom
12,350 +100 = 12,450 (new cost of event)
12,450 ÷ 350 = 35.57 (new cost per person)
35.57 – 35.29 = 0.28 (increase in cost per person)
0.28 ÷ 35.29 = 0.0079 (percent increase)
Increase about $0.29 per person, 0.8% increase

Question 6

RUBRIC

Score	Description
3	Response demonstrates thorough understanding of unit rates. • Student correctly finds the cost per person. (1 points) • Student thoroughly explains the impact of increasing the number of attendees by 50. (2 points)
0	Student does not address this question. He or she does not make an attempt to solve the problem.

SAMPLE RESPONSE

Scenario I: Wedding

 , which is $1.50 less per person

Scenario II: Fundraiser

 , which is $0.08 less per person

Scenario III: Conference

 , which is $0.22 less per person

Scenario IV: Prom

 , which is $0.51 less per person