

**MOSP Math Test #1 on estimating, multiplication, percents**

25

1 List the next 3 multiples in the number pattern:

a) 45, 50, 55, \_\_, \_\_, \_\_

b) 33, 36, 39, \_\_, \_\_, \_\_

3 c) -18, -20, -22, \_\_, \_\_, \_\_

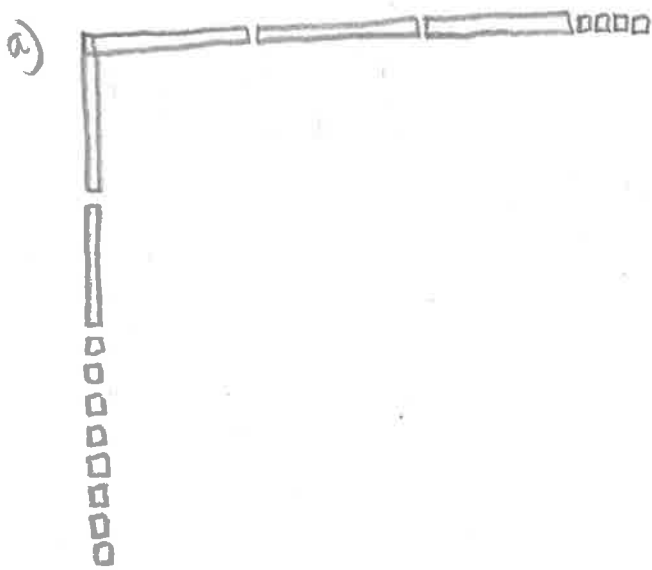
The following are receipts from a grocery store. Estimate each total mentally. State whether it is an *overestimate* (more than the total) or an *underestimate* (less than the total).

6 4) \$8.95  
4.66  
0.87

5) \$5.79  
4.48  
0.88  
9.22

6) \$2.06  
5.61  
1.81

7 Calculate the product using the area method.



b) draw Base 10 blocks and calculate:  
 $41 \times 19$

15

Name: \_\_\_\_\_, # \_\_\_\_\_  
Date: \_\_\_\_\_

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8. When Alexandra calls Henry's Taxi Service, she is so happy with how fast the taxi arrives; she decides to add 15% to the fare. If the taxi ride costs \$ 75.00

- a) How much will the tip be?
- b) How much should Alexandra give the driver?

1/2  
9. When Kayla went to Jocie & Emily's restaurant she was so pleased with the service, she decided to add a 15% tip to the bill. She got the bill from the server, Alexa. It was \$ 34.90.

- a) How much will the tip be?
- b) How much should Kayla leave?

1/2  
10. Ethan really enjoys his haircut from Raph's Coiffeur Salon so he decides to leave a 15% tip. The haircut costs \$38.33.

- a) How much will the tip be?
- b) How much should Ethan leave?

1/2  
11. Calculate 12% tax on \$24.50 MOSP swag. What is the total cost of the swag?

1/2  
12. Goods & Sales Tax (GST) = 7%. How much should Alex' Window Washing Service charge for the \$55 supreme-o-wash, including GST?

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