

Decimal Computation Unit Test
PMI 5th Grade

Name _____

1) $3.642 + 0.5 =$

- a. 4.046
- b. 3.647
- c. 4.142
- d. 3.712

2) $8.7 + 1.36 =$

- a. $12 + 0.2 + 0.03$
- b. 10.06
- c. twelve and ninety-six hundredths
- d. 11.06

3) The difference of $9.31 - 2.8$ is greater than which of the following numbers? *Select all that apply.*

- a. 5.5
- b. 6
- c. 6.5
- d. 6.6
- e. 7
- f. 7.5

4) $10.6 - 3.248 =$

- a. $7 + 0.3 + 0.04 + 0.008$
- b. $7 + 0.3 + 0.05 + 0.002$
- c. $7 + 0.4 + 0.04 + 0.002$
- d. $7 + 0.3 + 0.06 + 0.008$

5) $11 - 0.8 =$

- a. nine and two tenths
- b. eleven and eight tenths
- c. ten and eight tenths
- d. ten and two tenths

6) The product of 87×43 is greater than which of the following numbers? *Select all that apply.*

- a. 3,200
- b. 3,600
- c. 3,741
- d. 4,500
- e. 4,000
- f. 3,825

7) $80 \times 421 =$

- a. 32,000
- b. 33,600
- c. 33,680
- d. 3,368

8) $71 \times 62 =$

- a. 4,402
- b. 4,340
- c. 4,260
- d. 4,200

- 9) Joanie and Lisa both tried to find the product for 14.7×3.1 . Are either of them correct? Explain your answer.

$$\begin{array}{r} \text{Joanie} \\ 14.7 \\ \times 3.1 \\ \hline 147 \\ + 4410 \\ \hline 455.7 \end{array}$$

$$\begin{array}{r} \text{Lisa} \\ 14.7 \\ \times 3.1 \\ \hline 147 \\ + 4410 \\ \hline 45.57 \end{array}$$

- 10) Solve. Then, write your answer in standard form. *

14 tenths + 9 and 4 tenths =

- 11) Solve. Then, write your answer in standard form. *

27 hundredths – 5 hundredths =

12) $54.7 \times 2.8 =$

- a. 153.16
- b. 1,547.0
- c. 154.70
- d. 1,531.6

13) $0.682 \times 3.4 =$

- a. 2.3088
- b. 2.3188
- c. 23.188
- d. 23.08

- 14) Find the sum of $2.9 + 9.34 + 37$.

- 15) Find the difference of $\$30 - \3.18 .

- 16) The original price of an iPod sound system was \$2,495.99. Juan bought the sound system on sale for \$1,989.50. How much did Juan save?

- 17) Thomas had a \$20 bill when he went to the movies. He bought a ticket for \$8.50 and wants to get popcorn for \$3.75 and a drink for \$2.50.

Part A

Does Thomas have enough to buy the food and drink?

a) Yes

b) No

Part B

How much money did he have left after the movie?

- 18) Susan has \$50 in her savings account. She wants to buy a jacket for \$37.99 and a pair of jeans for \$39.50.

Part A

Does Susan have enough money to buy the new items?

a) yes

b) no

Part B

She then makes deposits of \$24.65 and \$49.50. What is the new balance in her account now?

- 19) It rained 2.4 inches on Saturday and 0.78 inches on Sunday in New York City.

Part A

How much did it rain on both days combined?

a) 1.62 inches

b) 3.81 inches

c) 3.18 inches

d) 3.08 inches

Part B

It rained a total of 5.2 inches in Louisiana on Monday. How much more did it rain in Louisiana than in NYC?

20) Julia rented a bike for a week when she visited her cousin. The rental cost for the bike was \$12.95 per day. She had her own helmet, but the strap broke on the third day, so she had to rent a helmet for the last four days at a cost of \$2.25 per day. How much did it cost to rent the bike and helmet? *

21) Three friends are having lunch together: Sam, Ramon and Nick. Use the lunch menu shown below to answer the questions.

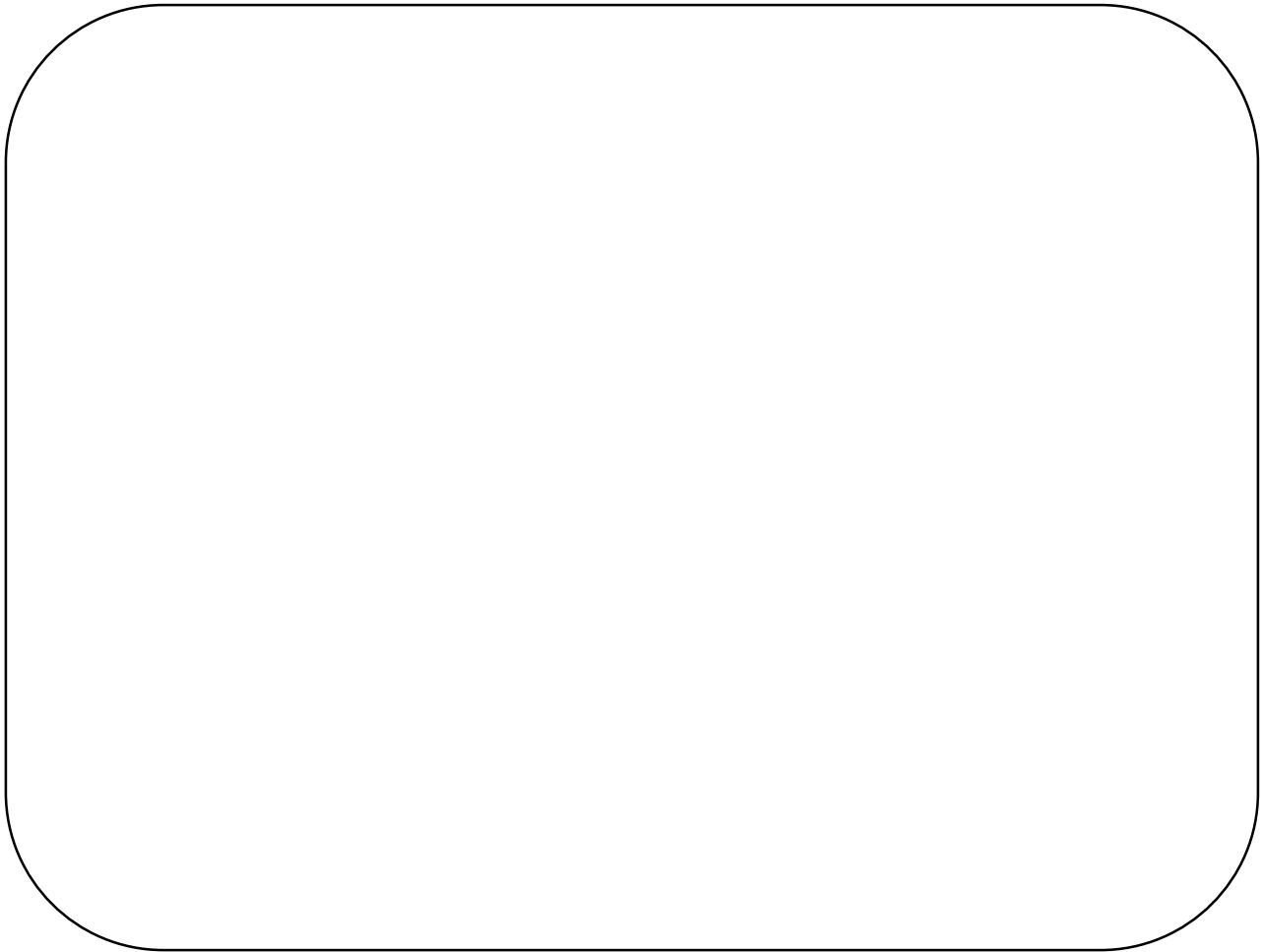
Tony's Lunch Menu

<u>Entrees</u>	<u>Cost</u>	<u>Beverages</u>	<u>Cost</u>
Tossed Salad	\$5.96	Soda	\$1.29
Slice of Pizza	\$1.45	Milk	\$1.50
Turkey Sandwich	\$5.75	Juice	\$1.75
Cheeseburger	\$4.95		

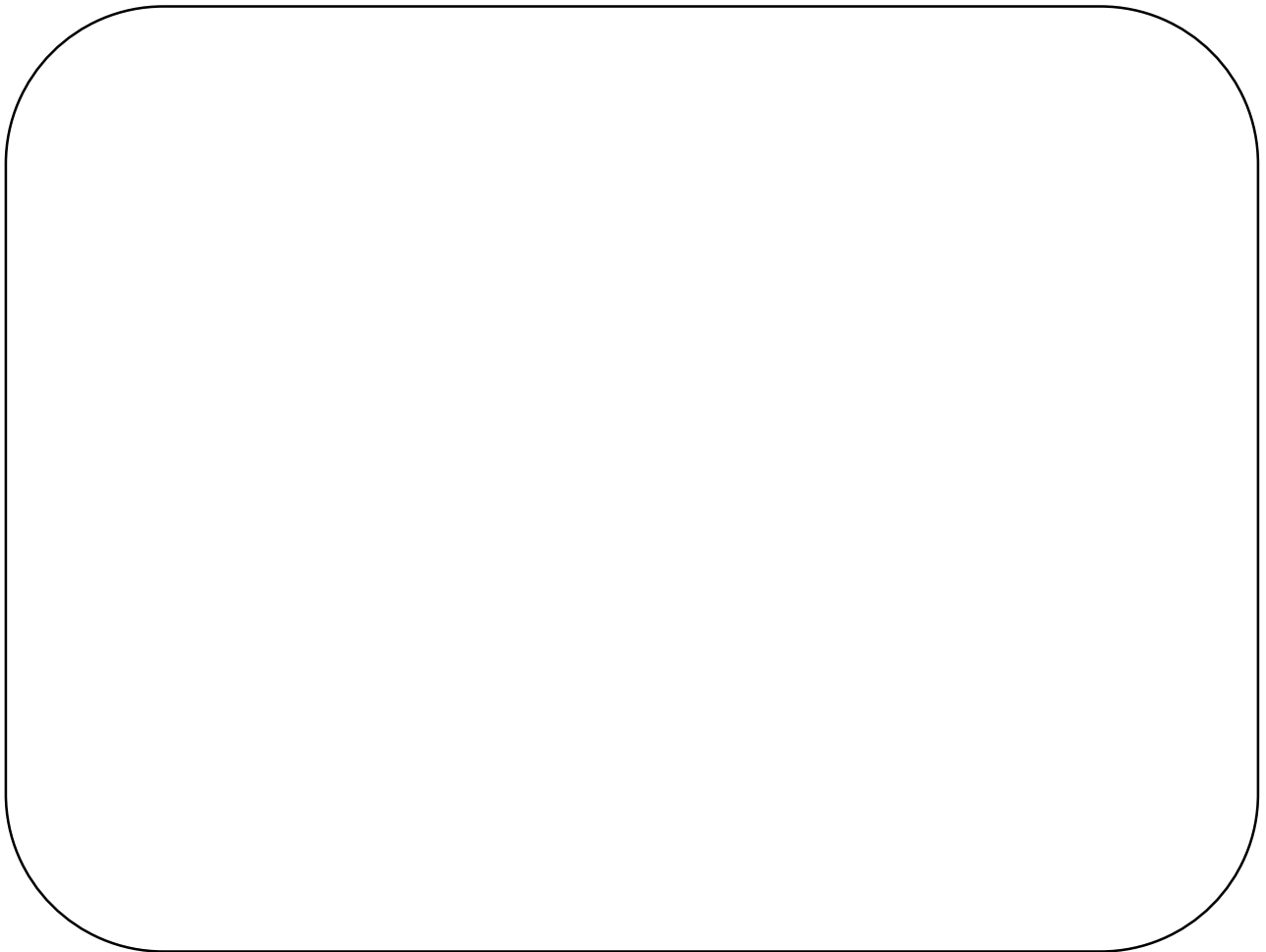
When they put all their cash together, they have a total of \$25.00. They decide that each person will order a meal of one entree and one beverage. Each meal will cost at least \$7.00 but no more that \$7.50. Explain each section in the space provided.

- Determine three different meals that the friends could order for lunch.
- After totaling all three amounts, what would be their change? Write your answer in standard, expanded, and word form.
- With their change, what lunch menu items could they still purchase?

- 22) Mrs. Fran wrote 5 tenths minus 3 hundredths on the board. Michael said the answer is 2 tenths, because 5 minus 3 is 2. Is he correct? Use a place value chart to show your work, and then explain your answer. *



- 23) Miles incorrectly gave the product of 7×2.6 as 14.42. Use an area model to help Miles understand his mistake, and then explain it in words. *



Decimal Computation Unit Re-Test
PMI 5th Grade

Name _____

1) $3.542 + 0.6 =$

- a. 4.046
- b. 3.647
- c. 4.142
- d. 3.712

2) $8.7 + 2.46 =$

- a. 12.23
- b. 11.06
- c. twelve and ninety-six hundredths
- d. 11.16

3) The difference of $8.24 - 2.9$ is greater than which of the following numbers? *Select all that apply.*

- a. 4
- b. 5
- c. 6
- d. 5.2
- e. 5.3
- f. 5.5

4) $11.7 - 4.248 =$

- a. 7.448
- b. 7.352
- c. 7.452
- d. 7.368

5) $13 - 0.6 =$

- a. nine and two tenths
- b. eleven and eight tenths
- c. twelve and four tenths
- d. eleven and two tenths

6) The product of 57×23 is greater than which of the following numbers? *Select all that apply.*

- a. 1,200
- b. 1,800
- c. 1,000
- d. 1,500
- e. 2,000
- f. 2,100

7) $651 \times 30 =$

- a. 18,000
- b. 19,530
- c. 19,500
- d. 18,980

8) $92 \times 75 =$

- a. 5,750
- b. 6,240
- c. 6,660
- d. 6,900

- 9) Joanie and Lisa both tried to find the product for 17.3×5.6 . Are either of them correct? Explain your answer.

$$\begin{array}{r} \text{Joanie} \\ 17.3 \\ \times 5.6 \\ \hline 1038 \\ + 8650 \\ \hline 96.88 \end{array}$$

$$\begin{array}{r} \text{Lisa} \\ 17.3 \\ \times 5.6 \\ \hline 1038 \\ + 865 \\ \hline 19.03 \end{array}$$

- 10) Solve. Then, write your answer in standard form. *

11 tenths + 9 and 7 tenths = _____

- 11) Solve. Then, write your answer in standard form. *

21 hundredths – 8 hundredths = _____

12) $37.4 \times 3.9 =$

- a. 448.8
- b. 1,458.6
- c. 145.86
- d. 44.88

13) $0.793 \times 5.2 =$

- a. 4.1136
- b. 4.1236
- c. 41.136
- d. 41.236

- 14) Find the sum of $3.5 + 8.27 + 26$.

- 15) Find the difference of $\$30 - \7.26 .

- 16) The original price of an iPod sound system was \$2,595.99. Juan bought the sound system on sale for \$1,879.50. How much did Juan save?

- 17) Gerard had a \$20 bill when he went to the movies. He bought a ticket for \$9.50 and wants to get popcorn for \$4.75 and a drink for \$2.00.

Part A

Does Gerard have enough to buy the food and drink?

- a) yes
- b) no

Part B

How much money did he have left after the movie?

- 18) Jackie has \$50 in her savings account. She wants to buy a jacket for \$24.99 and a pair of jeans for \$29.50.

Part A

Does Jackie have enough money to buy the new items?

- a) yes
- b) no

Part B

She then makes deposits of \$21.75 and \$42.50. What is the new balance in her account now?

- 19) It rained 3.5 inches on Saturday and 0.64 inches on Sunday in New York City.

Part A

How much did it rain on both days combined?

- a) 4.41 inches
- b) 5 inches
- c) 3.64 inches
- d) 4.14 inches

Part B

It rained a total of 6.3 inches in Louisiana on Monday. How much more did it rain in Louisiana than in NYC?

20) Julia rented a bike for week when she visited her cousin. The rental cost for the bike was \$11.95 per day. She had her own helmet, but the strap broke on the third day, so she had to rent a helmet for the last four days at a cost of \$2.50 per day. How much did it cost to rent the bike and helmet? *

21) Three friends are having lunch together: Gary, Mary and Frank. Use the lunch menu shown below to answer the questions.

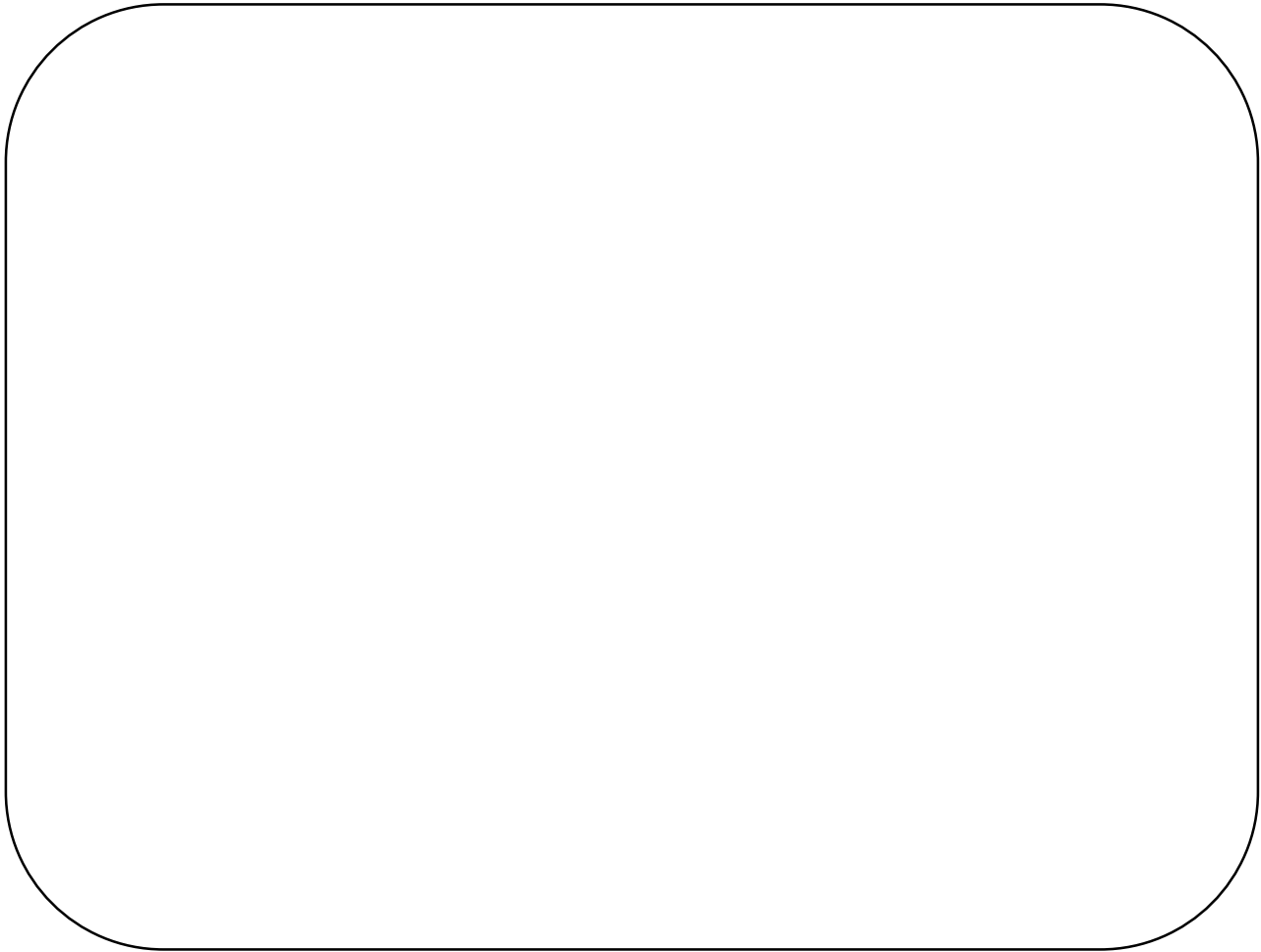
Tony's Lunch Menu

<u>Entrees</u>	<u>Cost</u>	<u>Beverages</u>	<u>Cost</u>
Tossed Salad	\$4.00	Soda	\$3.00
Slice of Pizza	\$2.45	Milk	\$2.25
Turkey Sandwich	\$5.75	Juice	\$1.75
Cheeseburger	\$4.95		

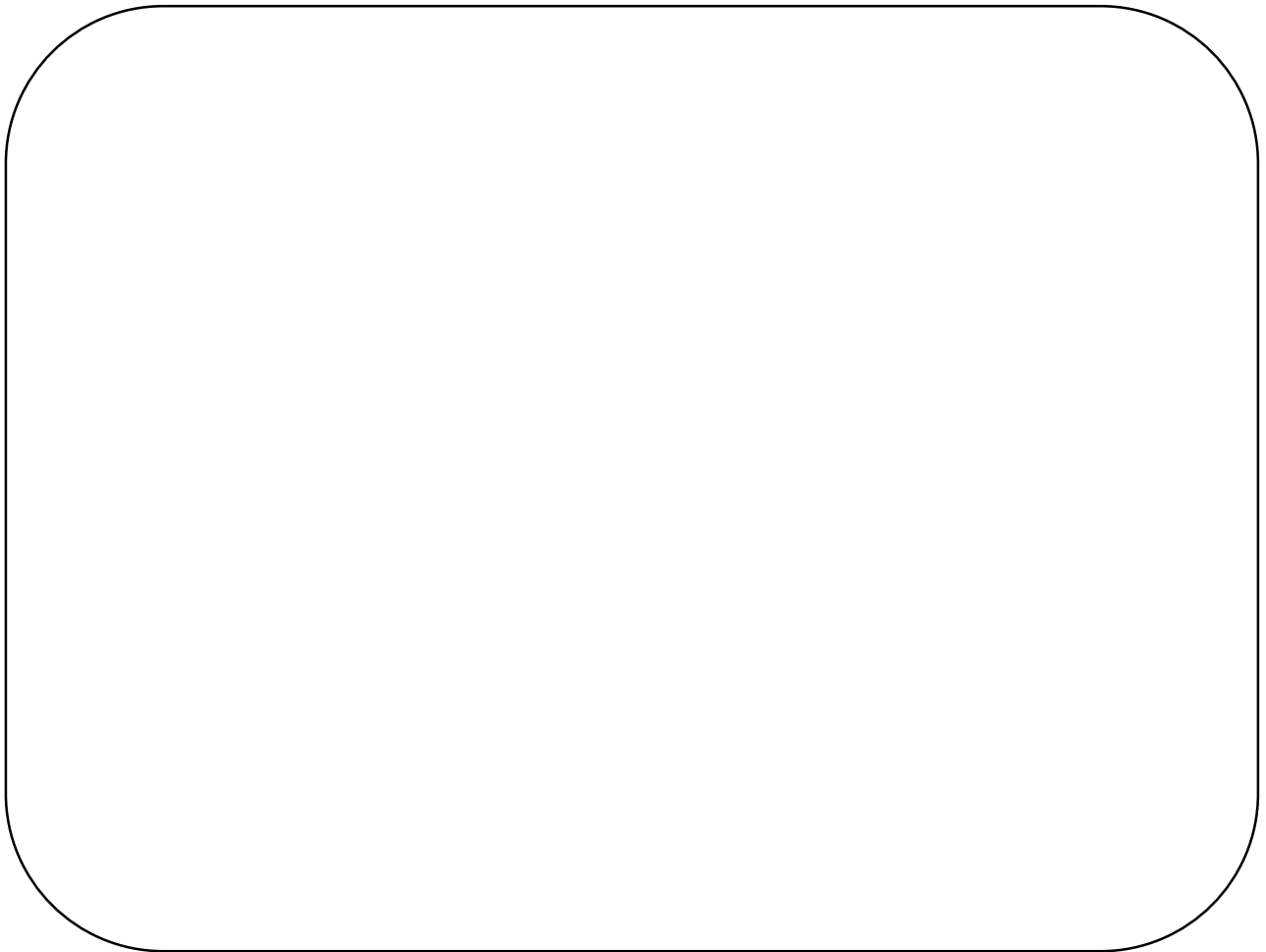
When they put all their cash together, they have a total of \$25.00. They decide that each person will order a meal of one entree and one beverage. Each meal will cost at least \$7.00 but no more than \$7.50. Explain each section in the space provided.

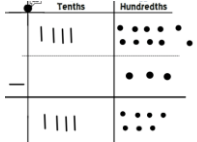
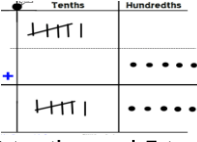
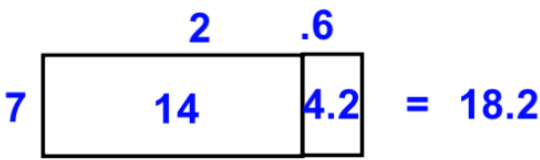
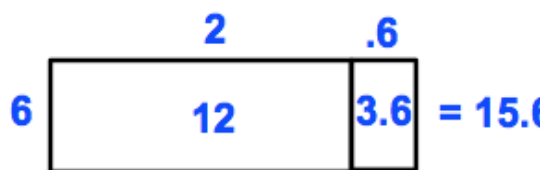
- Determine three different meals that the friends could order for lunch.
- After totaling all three amounts, what would be their change?
- With their change, what lunch menu items could they still purchase?

- 22) Mrs. Fran wrote 6 tenths plus 5 hundredths on the board. Michael said the answer is 11 tenths, because 6 plus 5 is 11. Is he correct? Use a place value chart to show your work, and then explain your answer. *



- 23) Miles incorrectly gave the product of 6×2.6 as 12.36. Use an area model to help Miles understand his mistake, and then explain it in words. *



	Unit Test – Answer Key	Unit Re-Test – Answer Key
1	c	c
2	b	d
3	a, b, and c	a, b, d, and e
4	b	c
5	d	c
6	a and b	a and c
7	c	b
8	a	d
9	Lisa. Sample: Joanie did not put the decimal in the right place.	Joanie. Sample: Lisa did not put the zero placeholder in for the second multiplication step.
10	$1.4 + 9.4 = 10.8$	$1.1 + 9.7 = 10.8$
11	0.22	0.13
12	a	c
13	b	b
14	49.24	37.77
15	\$26.82	\$22.74
16	\$506.49	\$716.49
17	Part A: a Part B: \$5.25	Part A: a Part B: \$3.75
18	Part A: b Part B: \$124.15	Part A: b Part B: \$114.25
19	Part A: c Part B: 2.02 inches	Part A: d Part B: 2.16 inches
20	\$99.65	\$93.65
21	answers will vary	answers will vary
22	 <p>Michael subtracted 3 tenths from 5 tenths, instead of 3 hundredths. 5 tenths – 3 hundredths = 4 tenths 7 hundredths</p>	 <p>Michael added 6 tenths and 5 tenths, instead of 5 hundredths. 6 tenths + 5 hundredths = 6 tenths 5 hundredths</p>
23	 <p>Miles misunderstood place value. $7 \times .6 = 4.2$, not .42.</p>	 <p>Miles misunderstood place value. $6 \times .6 = 3.6$, not .36.</p>