Title: Determining and Comparing Unit Prices

Objectives	Time frame to Complete
To determine unit price. First the student will estimate which product is the most expensive. Next the student will divide total cost of product by the number of ounces to determine the unit price. Then the student will list the unit prices from least to most expensive.	30 minutes
	NRS EFL 4

Stackable Certificate Documentation	Technology	Study / Life skills	EL-Civics	Career Pathways	Police	Paramedic	Fire Rescue	Medical Asst.	EKG / Cardio	Phlebotomy	Practical Nursing	Healthcare Admin	Pharmacy Tech	IMT	AMT	HVAC	Welding	Other:
X		X																

Standard(s) Addressed in Lesson
Use Math to Solve Problems and Communicate

Benchmark(s) Addressed in Lesson
M.4.4 Compare and order equivalent forms of commonly used fractions, decimals, and percents.

M.4.28 Confirm results with a calculator.

Materials
Paper

Pencil

Calculator

List of liquid products on handout

Learner Prior Knowledge
Division

Decimals

Activities
Step 1   Distribute the handout ("Determining and Comparing Unit Prices"). Review list of products to be sure students know what each item is. Student will guess (estimate) which product has the most expensive unit price.

Step 2   Students will divide cost of product by the number of ounces in the product.

Step 3   Students will arrange the unit prices from least expensive to most expensive.

Step 4   Check work. Use a calculator to confirm results.

Assessment/Evidence
Worksheet showing how student figured the unit prices. Work should be shown. Calculator can/should be used to confirm results. Save in portfolio to show mastery of benchmark if the student is working toward a Basic Stackable Certificate.

Adaptations for Beginning Students
Beginning students can work with a partner and use a calculator.

Adaptations for Advanced Students
Advanced students can graph the results in addition to working the handout.

Teacher Reflection/Lesson Evaluation
Did students assume the largest product would be the most expensive? Usually they are surprised at the results. Will students use this exercise to determine the best value when shopping?

This lesson was created by Middletown ABLE.

Name:_____ Date:_____M.4.4 & M.4.28

Determining and Comparing Unit Prices

1. Estimate which product is the most expensive per ounce.

2. Divide the cost of the item by the number of ounces to determine unit price.

3. Show your work. Check with calculator.

4. Was your estimate correct?

5. List items from least expensive to most expensive.

Scope	25.4 ounces	$4.29
Wite Out	.7 ounces (20 ml)	$ 1.28
Milk	64 ounces (1/2 gallon)	$ 1.75
	128 ounces (1 gallon)	$ 2.48
Coca Cola	67.6 ounces (2 l)	$ 1.29
Gasoline	1 gallon	$ 2.89
Quaker State motor oil	1 quart	$ 3.79
Minute Maid orange juice	64 ounces	$ 2.95
Minute Maid lemonade	64 ounces	$ 1.99
Elmer's Glue-All	4 ounces	$ 1.79
Distilled water	1 gallon	$ .87
Nyquil	10 ounces	$ 6.34
Pepto Bismol	12 ounces	$ 5.19
Pert shampoo	13.5 ounces	$ 3.39
Evian drinking water	1.05 quart (1 liter)	$ 1.99

ANSWER KEY

Determining and Comparing Unit Prices

1. Estimate which product is the most expensive per ounce.

2. Divide the cost of the item by the number of ounces to determine unit price.

3. Show your work. Check with calculator.

4. Was your estimate correct?

5. List items from least expensive to most expensive.

			ROUNDED	
Scope	25.4 ounces	$4.29	$ .17	
Wite Out	.7 ounces (20 ml)	$ 1.28	$ 1.83	
Milk	64 ounces (1/2 gallon)	$ 1.75	$ .03	.0273
	128 ounces (1 gallon)	$ 2.48	$ .02	.0193
Coca Cola	67.6 ounces (2 l)	$ 1.29	$ .02	.0190
Gasoline	1 gallon	$ 2.89	$.02	.0225
Quaker State motor oil	1 quart	$ 3.79	$.12	
Minute Maid orange juice	64 ounces	$ 2.95	$ .05	
Minute Maid lemonade	64 ounces	$ 1.99	$ .03	.0310
Elmer's Glue-All	4 ounces	$ 1.79	$.45	
Distilled water	1 gallon	$ .87	$ .01	.0067
Nyquil	10 ounces	$ 6.34	$ .63	
Pepto Bismol	12 ounces	$ 5.19	$ .43	
Pert shampoo	13.5 ounces	$ 3.39	$ .25	
Evian drinking water	1.05 quart (1 liter)	$ 1.99	$ .06	.0592

Evian might be extra credit because (1.05 quart times 32 ounces = 33.6 ounces)

ANSWER KEY

FROM LEAST EXPENSIVE TO MOST EXPENSIVE

1. Distilled water

2. Coca Cola

3. Gallon milk

4. Gallon gasoline

5. Half gallon milk

6. Lemonade

7. Orange juice

8. Evian drinking water

9. Quaker State motor oil

10. Scope

11. Pert shampoo

12. Pepto Bismol

13. Nyquil

14. Elmer's Glue-All

15. Wite Out