



Estimating School Store Purchases

Worksheet - Key

Help RG and Hannie estimate total purchases to stock merchandise at the Raymond Geddes School Store.

1. Natalie has \$50.00 to spend on merchandise for the school store. She would like to buy the following items: 4 Pet Silhouettes Pencils (\$8.64/display) and 2 Piranha Sharpeners (\$8.88/display).

- Round each item's purchase price to generate an estimate.

Estimated price of 4 Pet Silhouettes Pencils	\$36.00
Estimated price of 2 Piranha Sharpeners	\$20.00

Total Estimate	\$56.00

- Based on the total estimate, do you think Natalie will have enough money to buy all the items?

Yes ____ No X

- Use a calculator to determine the actual prices.

Actual price of 4 Pet Silhouettes Pencils	\$34.56
Actual price of 2 Piranha Sharpeners	\$17.76

Total Actual Price	\$52.32

- Based on the total actual price, does Natalie have enough money to buy all the items?

Yes ____ No X

- If she does not have enough money, what can she buy with her money? Explain and show your work.

Alternative 1 - She can purchase 4 Pet Silhouettes Pencils and 1 Piranha Sharpener for a total price of \$43.44.

$$(4 \times \$8.64) + (1 \times \$8.88) = \$43.44$$

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Alternative 2 – She can purchase 3 Pet Silhouettes Pencils and 2 Piranha Sharpeners for a total price of \$43.68.

$$(3 \times \$8.64) + (2 \times \$8.88) = \$43.68$$

2. Matt has \$75.00 to spend on merchandise for the school store. He would like to buy the following items: 5 Erasing Grips (\$9.00/bag), 4 Dessert Erasers (\$2.64/bag), and 3 6-Color Pens (\$6.48/bag).

- Round each item's purchase price to generate an estimate.

Estimated price of 5 Erasing Grips	\$45.00
Estimated price of 4 Dessert Erasers	\$12.00
Estimated price of 3 6-Color Pens	\$21.00

Total Estimate	\$78.00

- Based on the total estimate, do you think Matt will have enough money to buy all the items?

Yes ____ No X

- Use a calculator to determine the actual prices.

Actual price of 5 Erasing Grips	\$45.00
Actual price of 4 Dessert Erasers	\$10.56
Actual price of 3 6-Color Pens	\$19.44

Total Actual Price	\$75.00

- Based on the total actual price, does Matt have enough money to buy all the items?

Yes X No ____

- If he does not have enough money, what can he buy with his money? Explain and show your work.