

Front-End Estimating Products and Quotients Guided Lesson Explanation

1. Step 1) Round the cost of each item.

Hamburgers = \$4 (\$3.75 rounded)

French fries = \$2 (\$2.15 rounded)

Onion rings = \$3 (\$2.95 rounded)

Step 2) Multiply the cost of the items by the multiples needed for each item.

4 hamburger total cost = $\$4 \times 4 = \16

3 French fries total cost = $\$2 \times 3 = \6

2 onion rings total cost = $\$3 \times 2 = \6

Step 3) Add all the values to find the total cost.

$$\$16 + \$6 + \$6 = \$28$$

2. Step 1) Round the cost of each item.

Cheeseburgers = \$4 (\$4.25 rounded)

Hot Dogs = \$3 (\$2.85 rounded)

Baked Beans = \$5 (\$4.75 rounded)

Step 2) Multiply the cost of the items by the multiples needed for each item.

2 cheeseburger total cost = $\$4 \times 2 = \8

3 Hot dogs total cost = $\$3 \times 2 = \6

1 baked beans total cost = $\$5 \times 1 = \5

Step 3) Add all the values to find the total cost.

$$\$8 + \$6 + \$5 = \$19$$

Step 4) Determine the total number of 5-dollar bills that will satisfy \$19.

You can skip count by 5s: \$5 (1-bill), \$10 (2-bills), \$15 (3-bills), \$20 (4-bills)

4(5-dollar bills) will do it.



3. Step 1) Round the cost of onion rings and hamburgers.

Onion rings = \$3 (\$2.95 rounded) Hamburgers = \$4 (\$3.75 rounded)

Step 2) Determine how many friends would like a hamburger.

Stacey has 16 friends $\times \frac{1}{2} = 8$ friends that would like a hamburger.

Step 3) Multiply the cost of the items by the multiples needed for each item.

16 orders of onion rings = $\$3 \times 16 = \48

8 orders of hamburgers = $\$4 \times 8 = \32

Step 4) Find the total cost:

This can be rounded (approximated) or left as whole, based on the directions.

Left as whole: $\$48 + \$32 = \$80$

Approximated: $\$50 (\$48 \text{ rounded}) + \$30 (\$32 \text{ rounded}) = \$80$

