

# **Calculations & Estimations**

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## Peanut Problem

Gretchen has some money to buy some peanuts from a vending machine. When she arrives at the area where the machines are located, Gretchen discovers two that sell peanuts. One machine offers 8 peanuts for a nickel. The other machine gives 5 peanuts for three cents. Which machine offers Gretchen the best buy? Explain your thinking.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## Zoo Dilemma

Todd and Kay read in a newspaper that the zoo was going to have a special admission rate of two for \$5.00 to celebrate the birth of a new baby gorilla. They didn't have the money, so they decided to wash windows to earn money for their tickets. Kay washed two windows, each of which had a dozen windowpanes. Todd washed three windows, each of which had eight windowpanes. If they charged 10 cents for each windowpane they washed, and combined their money, will they have enough to go to the zoo? Explain your answer(s) and your thinking.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## Canned Food Drive

Muriel is walking door-to-door in her neighborhood asking for canned food donations to help the homeless shelter. She collected a big pile of cans before she stopped for lunch and another big pile after lunch. All together, Muriel collected 372 cans of food. Comparing the two piles, she discovered she collected 88 more cans before lunch than after lunch. How many cans did Muriel collect before lunch and how many cans did she collect after lunch? Explain your answer and your thinking.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## Reading Rush

Pauline is reading a book with 143 pages in it. The book is due back in the library in 10 days. If Pauline is on page 53, and if she reads 10 pages a night, will she be able to finish the book before she has to return it to the library? Explain your answer and your thinking.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## Jones Family Pizza

The four members of the Jones family are having pizza for dinner. John and his mother each eat  $\frac{1}{8}$  of the pizza. If Jana and her father divide the remaining pizza so that Jana eats twice as much as her father, show what fraction of the pizza Jana will eat.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## **Window Washing with Wendy**

Wendy was hired to wash all the windows at a new office building. There are 8 floors in the building and 12 offices on each floor, 6 offices across the front of the building and 6 offices across the back. The outside wall of each office has two windows – the corner offices are popular for this reason. How many windows will Wendy wash at this building? Explain your answer.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## Amazing Arrays

---

Draw as many different rectangular arrays as you can make using 12 tiles.  
 Can you draw the same number of arrays with 13 tiles? Why or why not?  
 Explain your thinking.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## Gold!

A poor farmer saved the life of the queen. As a reward, the queen promised to give the farmer 100 bars of gold immediately, or 2 bars of gold on the first day of the month, 4 of the second day, 8 the third days, 16 the fourth day and so on. Which reward should the farmer choose if he wants to get the greatest reward possible? Explain your thinking.

Scorer	CU	PS	V	C	Acc

Name \_\_\_\_\_

Date \_\_\_\_\_

Teacher \_\_\_\_\_

Exceeds    Meets    Does Not Yet Meet    On-Demand    Revised/Redone    Modified

Comments: \_\_\_\_\_

(Calculations/Estimations)

## **Babysitting Bottle Washer**

Michael is helping his mother take care of his baby sister, Emily. Emily drinks a bottle every two and a half hours. This starts when she wakes up at 6:00 a.m. and continues until she has her bedtime bottle at 9:00 p.m. Michael is washing the bottles so his mother can pour formula into them. How many bottles does Michael need to wash for his sister for one day? Explain your thinking.