



# GRADE 4 MATHEMATICS–Unit 4

Dear Parents,

Here is what your child is learning in Grade 4, Unit 4 along with some specific ways you can help. Look for additional newsletters for upcoming units.

## NUMBER RELATIONSHIPS AND COMPUTATION

Students need to:

- Multiply any whole number by a 2- or 3-digit factor.
- Divide any whole number by a 1-digit divisor.
- Estimate products to determine the reasonableness of answers.

Examples:

1.

$\begin{array}{r} 94 \\ \times 76 \\ \hline \end{array}$	<i>Sample response:</i> 7,144	2.	$6 \overline{)513}$	<i>Sample response:</i> 85 r 3 OR $85\frac{1}{2}$
--	----------------------------------	----	---------------------	--

3. A sports camp has \$2,000.00 to spend on basketballs. Estimate the number of basketballs the camp can buy if each ball costs \$23.99. Use what you know about estimation to explain your answer.

*Sample response:* I estimate 80 balls.

$\$23.99$ is close to $\$25.00$ .	OR	There are 20 hundreds in 2,000.
$25 \times 4 = 100$		$\$23.99$ is close to $\$25.00$ .
$100 \times 20 = 2,000$		There are 4 twenty-fives in one hundred.
$4 \times 20 = 80$		So $20 \times 4 = 80$

## MEASUREMENT

Students need to:

- Estimate and determine elapsed time.

Examples:

1. Cora began taking piano lessons when she was 7 years 1 month old. Cora is now 12 years 11 months old and is still taking lessons. Estimate how long Cora has been taking piano lessons. Use numbers or words to explain how you estimated.

*Sample response:*

My estimate is 6 years.  
 7 years 1 month is close to 7 years. 12 years 11 months is close to 13 years.  
 $13 - 7 = 6$  years.

2. A plane flight leaves at 12:17 PM. Dan arrived at the airport 3 hours and fifteen minutes early. What time did Dan arrive at the airport?

*Answer:* 9:02 AM.

## WAYS PARENTS CAN HELP

- Encourage your child to use estimation to determine a reasonable answer before computing multi-digit multiplication or division problems.
- Estimate and measure in minutes and seconds the time it takes to do simple household chores. Compare the time that it takes to do different household chores.
- Discuss everyday events using elapsed time. For example: practice reading bus schedules, determine the time you must return before a parking meter expires, determine the amount of time spent at a stoplight, or estimate and then determine the time it takes to travel on a trip.



- Compare ages of family members using years and months.

For additional activities, visit [www.ed.gov/pubs/parents/Math](http://www.ed.gov/pubs/parents/Math)