



# GRADE 5 MATHEMATICS-Unit 1

Dear Parents,

Here is what your child is learning in Grade 5, Unit 1 along with some specific ways you can help. Look for additional newsletters for upcoming units.

## ALGEBRA, PATTERNS, AND FUNCTIONS

Students need to:

- Recognize and represent functional relationships using graphs, tables, and rules.
- Compare and order integers on a number line.

Examples:

1. Movie tickets cost \$7.00 each.

Movie Ticket Sales					
Tickets ( $x$ )	10	20	30	40	50
Amount of money spent in dollars ( $y$ )					

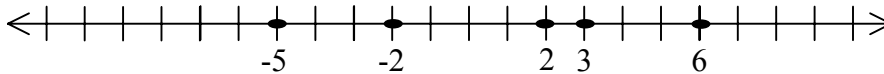
- Complete the function table to show the relationship between the number of tickets sold ( $x$ ) and the amount of money spent ( $y$ ).
- Write a rule for the relationship between  $x$  and  $y$  in the table.

Sample responses:

- 70, 140, 210, 280, 350
- $y = 7x$

2. Student correctly locates the integers 6, -2, 2, -5, and 3 in order on a blank number line.

Sample response:



## NUMBER RELATIONSHIPS AND COMPUTATION

Students need to:

- Identify and apply prime and composite numbers less than 100 and rules of divisibility.
- Determine and apply the greatest common factor and least common multiple of numbers.

Examples:

1. Identify a number between 120 and 130 that is divisible by 2, 3, 6, and 9. Use what you know about rules of divisibility to explain how you determined your answer. Use words or numbers in your explanation.

Sample response:

126 is the number. 126 is an even number so it is divisible by 2. The sum of its digits is divisible by 3 so it is divisible by 3. 126 is divisible by both 2 and 3 so it is divisible by 6. The sum of its digits is divisible by 9 so it is divisible by 9.

2. There are 2 signal lights at the local airport. One signal light flashes north every 4 seconds. The other signal light flashes north every 5 seconds. If they both flash north at 8 PM, in how many seconds will they again both flash north?

Sample response:

20 seconds.

One signal flashes north in multiples of 4 seconds, while the other signal flashes north in multiples of 5 seconds. Find the least common multiple of 4 and 5.

4: 4, 8, 12, 16, 20, 24, 28

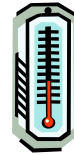
5: 5, 10, 15, 20, 25, 30

The least common multiple is 20. They will both flash north again in 20 seconds.

## WAYS PARENTS CAN HELP

Here are some activities you and your child can do together:

- Read thermometers with different scales. Discuss the numbers and scales on thermometers that have different uses.



- Items that are used together, like hot dogs and buns, are often sold in packages of different sizes. Look for examples of these in the store. Discuss the smallest number of packages of each that you need to buy so that every hot dog has a bun. Ask, "How many hot dogs with buns would we have altogether?"



- Look at the numbers on car license plates. Discuss, "Is the license number divisible by 2? How do we know?" Repeat with 3, 5, and 9.

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