

GRADE 5
2007 ALGEBRA STRAND
BENCHMARK EXAMPLES

5.2.1.1

- 1) An end of the year party for 5th graders costs \$100 rental for the amusement park plus \$4.50 for each student. Find the cost of
- a) 90 students _____
 - b) 100 students _____
 - c) 150 students _____
- 2) Know how to use a spreadsheet to create an input- output table that records the total cost of the party for any number of students between 90 and 150.

5.2.1.2

- 1) Given grid below and locate the following ordered pairs:
A = (2, 3) B = (3, 2) C = (0, 4) D = (2, 0)

5.2.2.1

- 1) I purchased 5 pencils at 11cents and 7 erasers at 11 cents. Use the distributive property to solve this problem. Show your work.
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- 2) I purchased five packs of ham lunch meat at \$3.99 each. Use the distributive property to solve this problem. Show your work. _____.

5.2.3.1

- 1) Given the inequality $1.5 + x < 10$, answer true or false.
a) When $x = 8.1$ _____ b) When $x = 8.5$ _____ c) When $x = 9.1$ _____
- 2) Is $x = \frac{3}{4}$ a solution to $x - 5.5 = 6.25$? _____.

5.2.3.2

- 1) A full packet of paper has 250 sheets. There are 25 students in my class and give each student A sheets of paper. How many are left (L). Write an equation using A and L for this problem, _____.

- 2) Julie gave her niece Molly \$100 when she was born. She continued to give her \$25 on her birthday each year. What is the total (T) amount that Molly would have received after Y years. Write an equation using Y and T. _____

5.2.3.3

- 1) The formula of a rectangle is $A = L \cdot W$
- a) Find the area when the length is 2.5 in. and the width is 1.75 in. _____
 - b) Find the length when the area is 24 and the width is 6. _____
 - c) Find the width when the length is 2.5 and the area is 6.25. _____
- 2) The formula of a triangle is $A = \frac{1}{2} bh$
- a) Find the area when $b = 10$ and $h = 5$ _____
 - b) Find the area when $b = \frac{1}{2}$ and $h = 3$ _____
 - c) Find the base when the area is 10 and the height is 5. _____
 - d) Find the base when the area is 4 and the height is 16. _____
- 3) $8 + 4 = n + 5$ $n =$ _____