

GRADE 3 2007 ALGEBRA STRAND BENCHMARK EXAMPLES

3.2.1.1

1. How many legs does your desk have? _____
2. How many legs do two desks have? _____
3. How many legs do ten desks have? _____ How did you figure that out? _____
4. Write a rule that shows the relationship between the number of desks (input) and the number of total legs (output). _____
5. Given a clothes wash machine: Input is dirty clothes, then output is clean clothes.
Given an ice machine: Input is water, then output is _____.
Given the rule "multiply by 3": Input is 2, then the output is _____.
Given the rule "add four": Input is 2, then the output is _____.

3.2.2.1

1. Write a number sentence for this problem: 8 tickets times a total of how much per ticket will give you a total of \$24? _____.
2. Write a number sentence for this problem: There are N boys in the third grade and two new students are added to make a total of 40 boys. _____.

3.2.2.2

1. Find the value of each number sentence to make them true:
(a) $6 = p \div 9$ (b) $24 = a \times b$ (c) $5 \times 8 = 4 \times n$ (d) $5 \times n = 45$
P = ____ a = ____ b = ____ n = ____ n = ____
2. How many math teams are competing if there is a total of 45 students with 5 students on each team? _____.
3. There are 23 students in each third grade class. There are three third grade classes. How many total students in third grade? _____.
4. $8 + 4 = n + 5$ n = ____