

### 3rd Grade Operations & Algebraic Thinking

### Represent and solve problems involving multiplication and division. Standard 2, Test 1

#### Multiple Choice

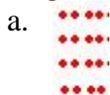
Identify the choice that best completes the statement or answers the question.

1. The pre-school teacher lined up her 22 students to go to lunch. She told the students to form two lines. How many students were in each line?  
a. 22  
b. 5 in one, 6 in the other  
c. 11  
d. 2
2. The marching band has 56 members. The band director wants them to line up in 8 equal lines. How many people will be in each line?  
a. 8  
b. 7  
c. 6  
d. 16
3. The army drill sergeant wanted his 78 soldiers to get in formation. He wanted 13 lines along the front. How many soldiers would be in each line behind the 13 soldiers in front?  
a. 6  
b. 26  
c. 39  
d. 13
4. Maria's family was driving home from the beach. They had to stop on the highway to let a flock of geese walk across the highway. Maria noticed that they were the 24th car to stop. She counted the lanes on the highway and found that there were 4 lanes. How many cars were waiting in each lane for the geese to cross?  
a. 4  
b. 24  
c. 20  
d. 6
5. A teacher gave all of her 32 students a laser pointer. She told them to point it at the



wall.

Then she told 4 students to point their laser at the top of the wall. All other students were to point their lasers at the wall in equal groups under those four. Which diagram below shows how that would look?



6. Alexa got a new tricycle for her birthday. All the wheels were the same. She counted the spokes on all the wheels and found that there were 36 total spokes. How many spokes did each wheel have?

- a. 12
- b. 9
- c. 3
- d. 18

7. Freddy took his twin sisters to the Lego shop. He bought 100 Legos. He then gave each sister equal amounts of Legos. He told them to put their Legos in 5 groups each. How many Legos did each sister have in each group?

- a. 50
- b. 9
- c. 10
- d. 5

Answer 1: C

22 students divided by 2 lines = 11

22

$\div 2$  or  $2 \times 11 = 22$

11

Answer 2: B

56 people divided into 8 lines would mean that there would be 7 people in each line.

56

$\div 8$  or  $8 \times 7 = 56$

7

Answer 3: A

78 soldiers divided by 13 rows = 6.

78

$\div 13$

6

Answer 4: D

24 cars in 4 lanes = 6 cars per lane.

Answer 5: B

32 students with 4 lasers on the top =  $32 \div 4 = 8$ . Only B has that pattern

Answer 6: A

A tricycle has 3 wheels. If there are 36 total spokes, then she has  $36 \div 3 = 12$ , or  $3 \times 12 = 36$

Answer 7: C

100 Legos divided by 2 sisters is 50 Legos each. Each sister divided her 50 Legos in to 5 groups. So, you have  $50 \div 5 = 10$