

**Formative Assessment  
Grade 3**

**December, 2000**

**Choose the correct answer for each.**

1. Which of the following is a factor of 36?

- 5
- 6
- 7
- 8

2. I can count to 35 if I skip count by

- 3
- 4
- 5
- 6

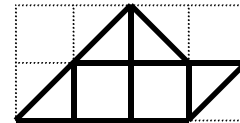
3. If you build 24 out of 3's, how many 3's would you need?

- 9
- 8
- 7
- 6

4. Find the area of the shape shown below.



1 square unit

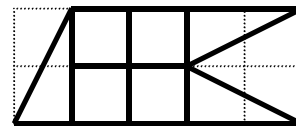


- 6
- 5
- 4
- 3

5. Find the area of the shape shown below.



1 square unit



- 7
- 6
- 5
- 4

6. 21 counters are divided into groups of 8. How many counters are left over?





- 2
- 3
- 4
- 5

7. Which expression should go in the  to make the sentence true?

$$36 \div 3 = \text{$$

- $3 \times 4$
- $18 - 5$
- $56 \div 8$
- $5 + 5 + 4$

8. Use your inchstick or ruler to help you solve this problem.  
Rick drew a line that was between 1 and 2 inches long. Which of these could be Rick's line?

- 
- 
- 
- 

9.  $72 \square 8 = 9$

Look at the problem above.  
Which of the symbols should go into the  to make the sentence true?

- +
- 
- $\times$
- $\div$


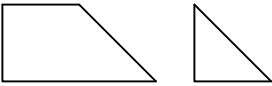
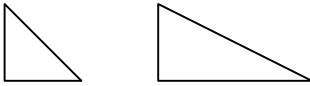

10. In a costume store there are 20 red hats and 15 blue hats. The hats are hung in 7 equal rows. How many hats are in each row?

- 4
- 5
- 6
- 7

11. Sandy made one straight cut across the rectangle.



Which pair of figures could be the two pieces of the rectangle?

-   
   
   
 

12. Elephants have 2 tusks.  
Which number sentence can you use to find how many tusks are on 9 elephants?

- $9 \times 2 =$   
  $9 + 2 =$   
  $9 - 2 =$   
  $9 \div 2 =$

**Grid in the correct answer**

13. A store has a stuffed animal display. There are 31 animals in the back row. 27 in the next row, 23 in the next row, and 19 in the next row. If the pattern continues how many animals are in the next row?

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

14. Bob and Jill are stamping 4 birds on each greeting card they make. Bob made 8 cards and Jill made 5 cards. How many more birds has Bob stamped than Jill?

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

15. Jim's mother bought 8 boxes of crayons. Each box had 6 crayons. How many crayons did she buy?

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

## Short Answer Questions

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1. The factory put 101 paper clips in each box.  
How many paper clips will you get if you buy  
9 of these boxes?  
Write down how you figured this out.

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2. Use the ruler to draw a line segment that is 4 inches long.  
Be as exact as possible.

How long is a line segment that is half as long as the  
line segment you drew?

3. Choose one of the following factors of 48 and circle it.

3      4      8

Fill in the blanks.

I know there are \_\_\_\_\_ of my number in 48

because

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4. My friend has 18 books. She wants to divide them equally between herself, her brother, and me.  
How many books will we each get?

Show how you solved this problem.

You can use numbers, words, or pictures.

5. Sam collects marbles. He has marbles in 3 different designs. For each design, he has a marble in each of 7 different colors. How many marbles does Sam have in all?

Show how you solved this problem.  
You can use numbers, words, or pictures.

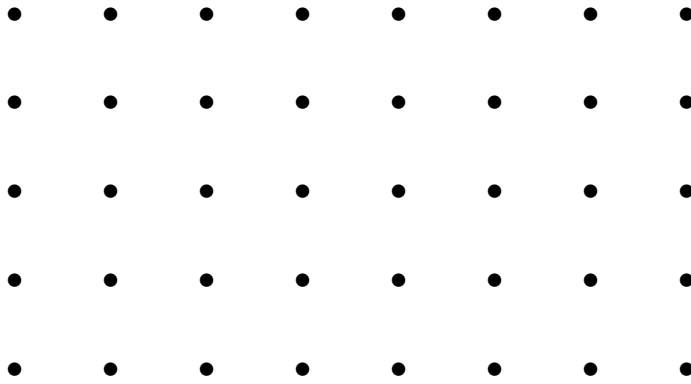
## **Extended Response Questions**

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1. You are to arrange 12 chairs.  
Each row must have the same number of chairs.  
Your arrangements will make rectangles of different sizes.

Draw the rectangles that represent the arrangements.  
Write down the dimensions of each rectangle you make.

2. Make a shape with an area of 5, 6, or 7 square units.  
Draw it on the dot grid.  
Use both squares and triangles in your shape.



What is the area of your shape? \_\_\_\_\_

Write how you know your shape has that area.

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