

Summer Math

For Students Entering Third Grade

It's Summer! Some of you will go to camp, some will take vacations, and some will simply relax.

In **addition**, throughout the summer, your future third grade teachers would like you to continue to practice your math skills.

We have attached math problems for you to complete. Please bring the math packet to your teacher on the first day of school. You will receive extra credit toward your first math grade for your effort.

Have a terrific summer! We can't wait to meet you.

Third Grade Teachers

Identifying Place Values

Number and Operations

DIRECTIONS: Choose the best answer.

1. Which digit is in the hundreds place?

- (A) 4
(B) 0
(C) 1
(D) none of the above

2. What is the place value of number 8?

- (F) ones
(G) tens
(H) hundreds
(J) thousands

DIRECTIONS: Use the following set of numbers to answer questions 3 and 4.
791, 792, 793, 794, 795

3. What is the place value of the 7s?

- (A) ones
(B) tens
(C) hundreds
(D) thousands

4. What is the place value of the 9s?

- (F) ones
(G) tens
(H) hundreds
(J) thousands

DIRECTIONS: Choose the best answer.

5. Which digit is in the hundreds place?

- (A) 4
(B) 0
(C) 1
(D) 6

6. What is the place value of the number 5?

- (F) ones
(G) tens
(H) hundreds
(J) thousands

7. Which number has 6 ones and 3 hundreds?

- (A) 563
(B) 653
(C) 356
(D) 536

8. Which number has 4 hundreds, 5 tens, and 2 ones?

- (F) 524
(G) 542
(H) 425
(J) 452



Name _____

Date _____

Mathematics

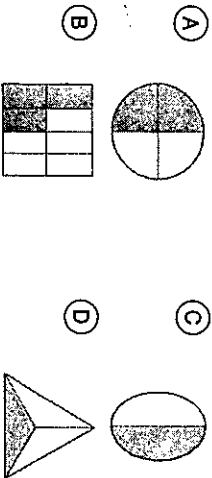
1.1.A

Naming Fractional Parts

Number and Operations

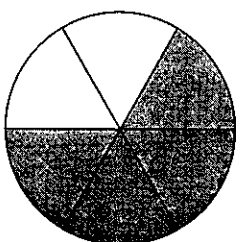
DIRECTIONS: Choose the best answer.

1. Which shape is one-third shaded?



3. How much of the circle below is shaded?

- (A) $\frac{5}{6}$
- (B) $\frac{4}{6}$
- (C) $\frac{1}{2}$
- (D) $\frac{1}{6}$

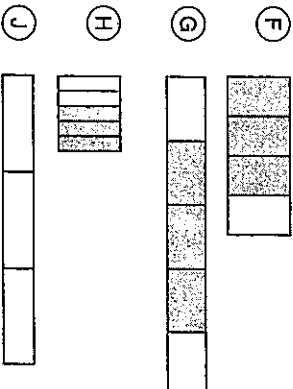


2. How much of the figure below is shaded?



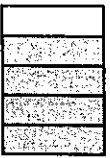
4. Which of these figures shows $\frac{3}{4}$?

- (F) $\frac{2}{3}$
- (G) $\frac{4}{8}$
- (H) $\frac{2}{6}$
- (J) $\frac{4}{6}$



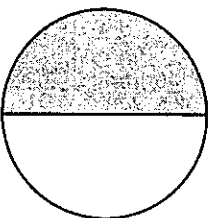
DIRECTIONS: Express the shaded parts as a fraction. The first one has been done for you.

5.

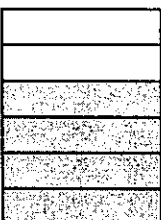


$\frac{4}{5}$

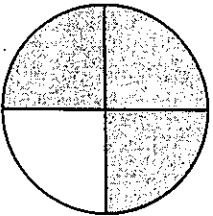
6.



7.



8.



9.



10.





Mathematics

1.A

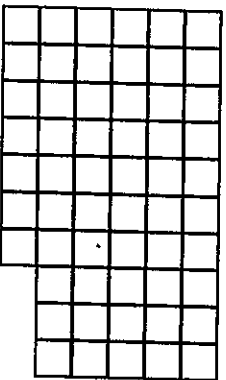
Understanding Numbers

Number and Operations

DIRECTIONS: Choose the best answer.

1. Which number matches the base 10 blocks?

- (A) 43
- (B) 68
- (C) 51
- (D) 57



2. Which squares contain numbers that are all less than 19?

- | | | | |
|--------|--------|--------|--------|
| (F) 7 | (I) 15 | (L) 10 | (M) 18 |
| (G) 91 | (J) 20 | (N) 32 | (O) 57 |
| (H) 18 | (K) 6 | (P) 23 | (Q) 65 |
| (J) 12 | (R) 81 | (S) 17 | (T) 44 |

3. Which numbers should go in the blank spaces when you count by ones?

38, 39, _____, 41, 42, 43, _____

- (A) 40 and 44
- (B) 29 and 45
- (C) 30 and 46
- (D) 39 and 44

4. Which number is the expanded numeral for seven hundred eighty-six?

- (F) $60 + 80 + 70$
- (G) $70 + 80 + 60$
- (H) $700 + 80 + 6$
- (J) $70 + 86$

5. Which numeral means seven hundreds, three tens, and five ones?

- (A) 735
- (B) 7035
- (C) 7305
- (D) 739

6. Which number matches the word in the box?

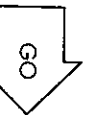
five hundred thirty six

- (F) 5,306
- (G) 356
- (H) 5,036
- (J) 536

7. If you are counting by ones, which number word should go in the box?

twenty-nine, _____,
thirty-one, thirty-two

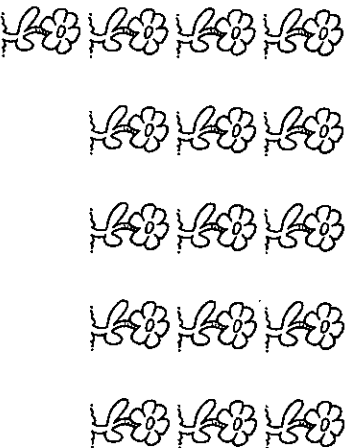
- (A) thirty
- (B) forty
- (C) fifty
- (D) twenty-eight



8. Which group of numbers is in the correct counting order?

- (F) 79, 78, 77, 80, 81
- (G) 78, 79, 77, 80, 81
- (H) 77, 78, 79, 80, 81
- (J) 79, 77, 78, 81, 80

9. Look at the flowers. Which group of base 10 blocks has the same number as the flowers?



- (A)
- (B)
- (C)
- (D)

10. Look at the hundreds, tens, and ones chart. Which number is represented by the dots on the chart?

100s	10s	1s
●● ●● ●●	●● ●●	●● ●● ●●

- (F) 756
- (G) 857
- (H) 847
- (J) 846

11. Which word stands for the number in the box?

43

- (A) thirty-four
- (B) forty
- (C) forty-three
- (D) forty-four

12. Which number matches the number in the middle of the box?

11, 12, 13, 14, 15

- (F) eleven
- (G) thirteen
- (H) fifteen
- (J) twelve

Understanding Operations

Number and Operations

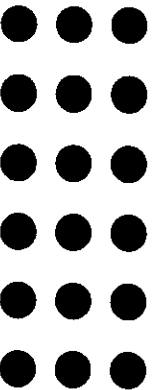
DIRECTIONS: Read each question. Then, choose the best answer.

1. How many problems have an answer equal to four?

$\begin{array}{r} 7 \\ + 3 \\ \hline \end{array}$	$\begin{array}{r} 8 \\ - 4 \\ \hline \end{array}$	$\begin{array}{r} 9 \\ - 6 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$	$\begin{array}{r} 2 \\ + 3 \\ \hline \end{array}$
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- (A) 4
(B) 1
(C) 5
(D) 3

2. Which multiplication fact is shown by the dots?



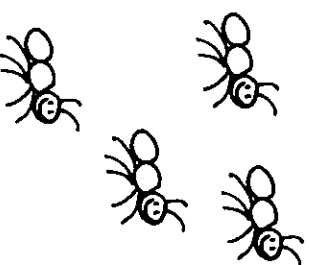
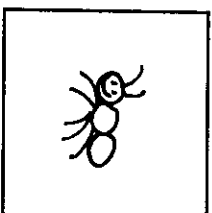
- (F) $3 \times 4 = 12$
(G) $3 \times 6 = 18$
(H) $4 \times 4 = 16$
(J) $2 \times 9 = 18$

3. Which group of number statements equals the same as the word in the box?

eight

- (A) $10 - 5$
 $3 + 2$
(B) $4 + 4$
 $11 - 3$
(C) $13 - 6$
 $4 + 3$
(D) $8 + 3$
 $15 - 4$

4. Five ants live together. Four ants go out for a walk. Which number sentence shows how many ants stay home?



- (F) $5 - 4 = 1$
(G) $5 + 4 = 9$
(H) $9 - 5 = 4$
(J) $6 + 4 = 10$

5. Look at the number sentence in the box. Which number is the best estimate for your answer?

$276 + 88 = \square$

- (A) 100
(B) 600
(C) 200
(D) 400

Relating Addition and Subtraction

Number and Operations

DIRECTIONS: Find the missing number that solves both number sentences.

Example:

$$11 - \boxed{6} = 5$$

$$5 + \boxed{6} = 11$$

The number that solves both number sentences is 6.



Try each answer choice in both boxes. Find one choice that makes both sentences true.

1. $7 + \square = 15$
 $15 - \square = 7$

- (A) 8
- (B) 7
- (C) 9
- (D) 5

4. $14 - \square = 6$
 $6 + \square = 14$

- (F) 9
- (G) 8
- (H) 6
- (J) 7

2. $25 - \square = 20$
 $20 + \square = 25$

- (F) 7
- (G) 6
- (H) 5
- (J) 4

5. $5 + 7 = \square$
 $\square - 5 = 7$

- (A) 11
- (B) 13
- (C) 12
- (D) 14

3. $3 + \square = 13$
 $13 - \square = 3$

- (A) 9
- (B) 10
- (C) 11
- (D) 8

6. $10 - 6 = \square$
 $\square + 6 = 10$

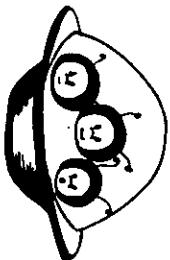
- (F) 3
- (G) 4
- (H) 5
- (J) 6

Modeling Multiplication

Number and Operations

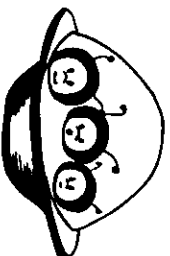
DIRECTIONS: Use multiplication to find the answers.

Example:



2
ships

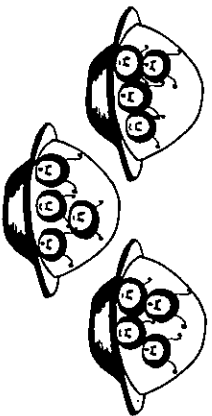
X



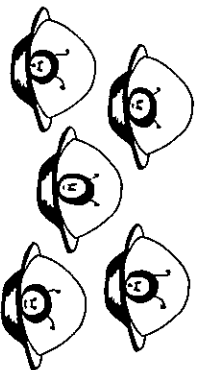
3
creatures
in each ship

=

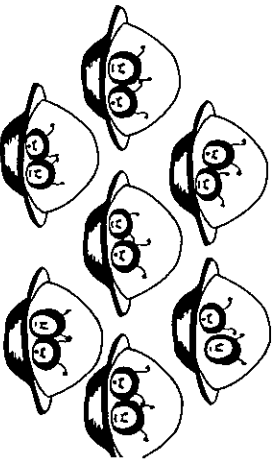
6
in all



$$1. 3 \times 4 = \underline{\quad}$$



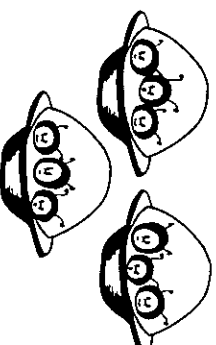
$$2. 5 \times 1 = \underline{\quad}$$



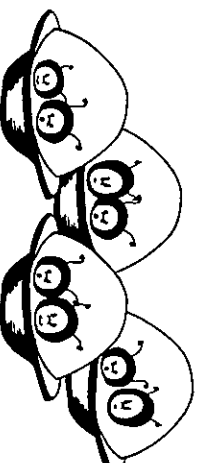
$$3. 7 \times 2 = \underline{\quad}$$



$$4. 2 \times 2 = \underline{\quad}$$



$$5. 3 \times 3 = \underline{\quad}$$



$$6. 4 \times 2 = \underline{\quad}$$

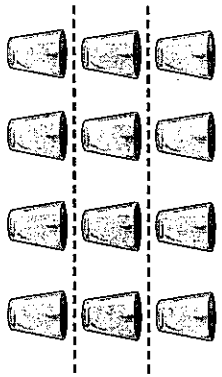
Modeling Division

Number and Operations

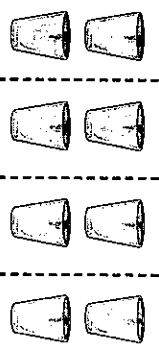
DIRECTIONS: Use division to find the answers.

Example:

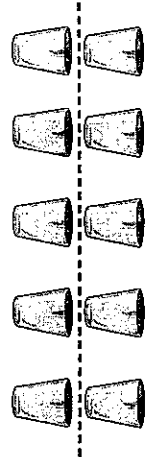
8 glasses ÷ 2 groups = 4 glasses in each group



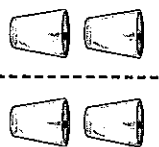
1. $12 \div 3 =$ _____



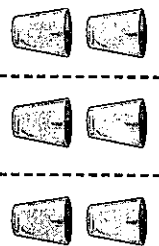
4. $8 \div 4 =$ _____



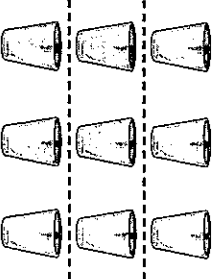
2. $10 \div 2 =$ _____



5. $4 \div 2 =$ _____



3. $6 \div 3 =$ _____



6. $9 \div 3 =$ _____