Incoming 4th Grade

SUMMER MATH PACKET

Student Name: _____

Date: _____

1. Chloe has 7 groups of marbles.
There are 8 marbles in each group.
Which math expression represents the total number of marbles?

- ❑ A. $7 + 8$
- ❑ B. $8 - 7$
- ❑ C. 7×8
- ❑ D. 8×8

2. Heather bought six 10-packs of fruit bars and four 8-packs of yogurt cups for snacks after school. If T is the total number of snacks, which equation represents the number of snacks Heather bought?

- ❑ A. $T = (6 \times 4) + (10 \times 8)$
- ❑ B. $T = (6 + 4) + (10 + 8)$
- ❑ C. $T = (6 + 10) \times (4 + 6)$
- ❑ D. $T = (6 \times 10) + (4 \times 8)$

3. A student started at 0 and counted by 3s.
What numbers will be counted?
Choose the **two** correct answers.

- ❑ A. 21
- ❑ B. 29
- ❑ C. 33
- ❑ D. 40

6. Match each division equation with its quotient.
Numbers may be used once, more than once, or not at all.

3 4 5 6 7 8

$32 \div 8 =$ _____

$35 \div 7 =$ _____

$42 \div 6 =$ _____

$48 \div 8 =$ _____

$49 \div 7 =$ _____

7. Melanie is playing a video game.
She has already scored 45 points.
She scores 3 points every minute for 10 minutes.
How many points has she scored now?

- ❑ A. 48 points
- ❑ B. 58 points
- ❑ C. 75 points
- ❑ D. 105 points

8. Multiply. Write your answer below.

$4 \times 50 =$ _____

11. Which of the following fractions is equivalent to $\frac{2}{6}$?

- ❑ A. $\frac{1}{3}$
- ❑ B. $\frac{1}{2}$
- ❑ C. $\frac{2}{3}$
- ❑ D. $\frac{3}{3}$

12. Which of the following fractions are equivalent to 3? Choose the **two** correct answers.

- ❑ A. $\frac{8}{2}$
- ❑ B. $\frac{6}{2}$
- ❑ C. $\frac{3}{3}$
- ❑ D. $\frac{3}{6}$
- ❑ E. $\frac{3}{1}$

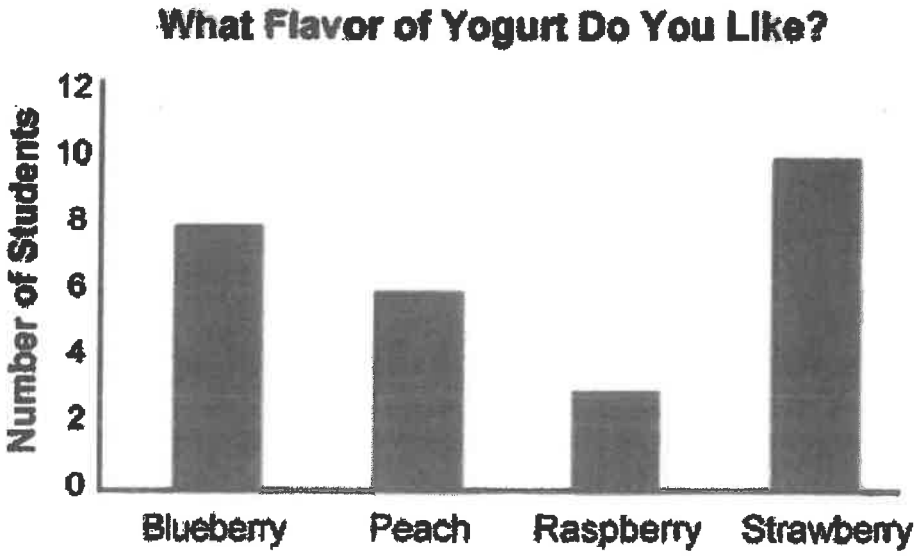
13. Circle a symbol to make the statement true.

$$\frac{1}{4} \quad = \quad < \quad > \quad \frac{1}{3}$$

17. There are 96 oranges in 8 boxes. Each box contains the same number of oranges. How many oranges are in each box?

- ❑ A. 9 oranges
- ❑ B. 11 oranges
- ❑ C. 12 oranges
- ❑ D. 15 oranges

18. Use the bar graph to answer the questions.



Use the numbers to answer each question.
Numbers may be used once or not at all.

3 5 7 10 14 18

How many students like strawberry? _____

How many more students like blueberry than raspberry? _____

How many fewer students like raspberry than peach? _____

23. Dara asked her classmates the following question:
What is your favorite type of dog?
The pictograph shows her data.

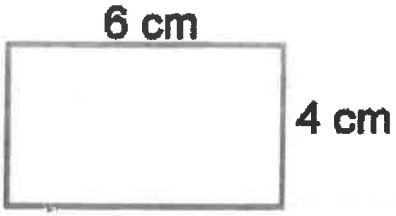
Beagle	☺☺☺☺☺☺
Cocker Spaniel	☺☺☺☺☺
Husky	☺☺☺☺☺☺☺☺☺
Pug	☺☺☺☺

Key: ☺ = 2 students

How many more students chose husky than beagle?

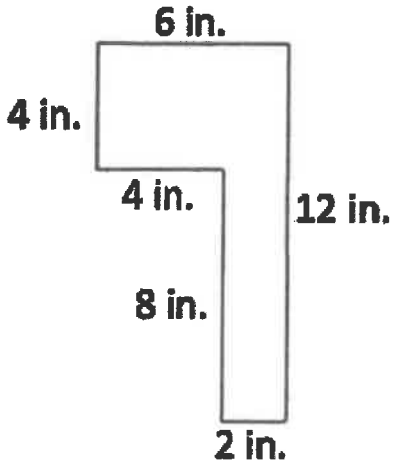
- ❑ A. 3 students
- ❑ B. 6 students
- ❑ C. 9 students
- ❑ D. 15 students

25. What is the area of the rectangle?



- ❑ A. 10 square centimeters
- ❑ B. 12 square centimeters
- ❑ C. 20 square centimeters
- ❑ D. 24 square centimeters

26. What is the area of the shape?



- ❑ A. 56 square inches
- ❑ B. 48 square inches
- ❑ C. 40 square inches
- ❑ D. 36 square inches

29. Which of the following shapes always has 2 pairs of parallel sides? Choose the **two** correct answers.

- ❑ A. rectangle
- ❑ B. trapezoid
- ❑ C. square
- ❑ D. quadrilateral

30. Find the difference.

500 – 186 = ?

- ❑ A. 686
- ❑ B. 486
- ❑ C. 414
- ❑ D. 314

NAME DATE

Representing and Interpreting Data

Problem 2. What Animal Would You Like to Have for a Pet?

Here are the answers from a Grade 3 class to the question "What animal would you like to have as a pet?"

On another sheet of paper, use a bar graph or a pictograph to organize and represent these data.

Then write about what you found out about this class from the data.

polar bear	cat	goldfish	puppy
octopus	poodle	cat	dog
cat	dog	angelfish	lion
tiger	shark	dog	kitten
horse	puppy	kittens	puppy
dog	turtle	hamster	sea horse

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Addition and Subtraction Problems

Write equations for the problems, solve the problems, and show your solutions.

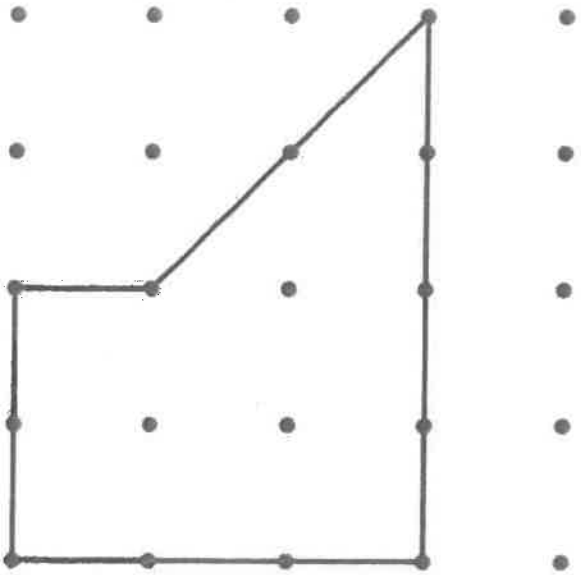
3 Two third-grade classes sold muffins at a school bake sale. Mr. Jackson's class sold 204 muffins, and Ms. Santos's class sold 183 muffins. How many more muffins did Mr. Jackson's class sell than Ms. Santos's class?

4 Mr. Jackson's students are trying to read 150 books this year. So far they have read 78 books. How many more books do they need to read to reach their goal?

NAME _____ DATE _____

Finding Area

1 Look at the shape below.

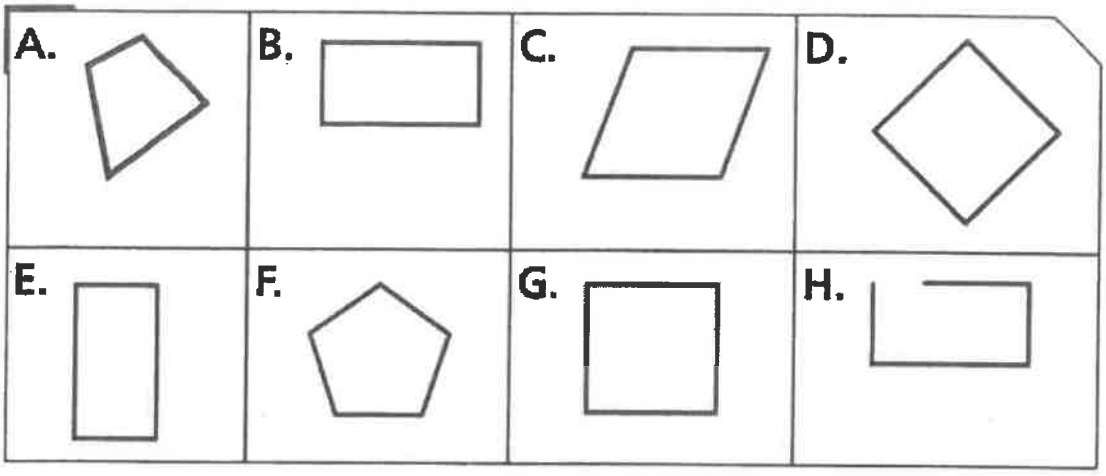


What is the area of this shape in square units?
Explain how you know.

NAME DATE

Area and Quadrilaterals

2 Look at these shapes.



Write in the letters of shapes that answer each question. Some shapes may have more than one name.

A Which of these shapes are quadrilaterals? _____
List two reasons these shapes are quadrilaterals.

_____

_____

List at least one reason why the others are not quadrilaterals.

_____

B Which of the quadrilaterals are rhombuses? _____

Which are rectangles? _____

Which are squares? _____

C Draw another quadrilateral that is NOT a square, rectangle, or rhombus.

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Multiplication and Division Problems

For each problem, write an equation that represents the problem and solve it.

1. In Mr. Clark's class 8 groups of students are working on a project. Each group needs 9 pieces of paper for the project. How many pieces of paper are needed altogether?

2. Ms. Simpson bought 42 glue sticks for her class. The glue sticks come in packs of 6. How many packs did she buy?

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Solving Word Problems

Solve the following problems. Show how you solved each problem, including equations.

1. Oscar orders four 70-packs of balloons and three 8-packs of toy people to sell at his party store. How many items does he order from The Toy Factory?

2. Jung bought 27 spinning tops to give out at her birthday party. How many 3-packs did she buy?

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Representing and Comparing Fractions

3 Write two fractions that are equivalent to $\frac{1}{2}$.

$\frac{1}{2} =$ _____ $\frac{1}{2} =$ _____

Show or explain how you know the fractions are equivalent.

Final Assessment Test 0 – 10

0 × 9	5 × 8	2 × 7	6 × 5	9 × 6	5 × 2	3 × 1	3 × 0	7 × 0	8 ×10
9 × 3	1 × 9	8 × 8	9 × 7	3 × 5	7 × 6	8 × 2	2 × 1	5 × 0	8 × 0
3 × 4	8 × 3	2 × 9	0 × 8	3 × 7	7 × 5	3 × 6	7 × 2	5 × 1	6 × 0
9 × 2	5 × 4	7 × 3	3 × 9	3 × 8	8 × 7	9 × 5	5 × 6	6 × 2	4 × 1
2 × 2	4 × 2	2 × 4	6 × 3	4 × 9	7 × 8	4 × 7	4 × 5	8 × 6	9 × 2
8 × 8	3 × 3	8 × 2	4 × 4	5 × 3	5 × 9	4 × 8	5 × 7	8 × 5	4 × 6
9 × 1	1 × 1	7 × 7	3 × 2	9 × 4	4 × 3	6 × 9	4 × 8	6 × 7	5 × 5
0 ×10	6 × 1	5 × 5	6 × 6	0 × 2	7 × 4	3 × 3	7 × 9	6 × 8	7 × 7
2 ×10	6 ×10	7 × 1	9 × 9	0 × 0	6 × 2	8 × 4	2 × 3	8 × 9	9 × 8
5 ×10	7 ×10	9 ×10	8 × 1	4 × 4	5 × 5	7 × 2	6 × 4	1 × 3	9 × 9

TEST

Review Sheet 1 – 10

14 ÷ 7 =	6 ÷ 1 =	24 ÷ 4 =	15 ÷ 3 =	30 ÷ 3 =
54 ÷ 9 =	63 ÷ 9 =	36 ÷ 6 =	14 ÷ 2 =	4 ÷ 1 =
42 ÷ 7 =	15 ÷ 5 =	45 ÷ 5 =	27 ÷ 9 =	20 ÷ 4 =
64 ÷ 8 =	24 ÷ 4 =	12 ÷ 4 =	35 ÷ 7 =	18 ÷ 2 =
42 ÷ 7 =	90 ÷ 9 =	60 ÷ 6 =	48 ÷ 6 =	42 ÷ 6 =
81 ÷ 9 =	48 ÷ 8 =	21 ÷ 3 =	20 ÷ 2 =	32 ÷ 4 =
32 ÷ 8 =	5 ÷ 1 =	45 ÷ 5 =	24 ÷ 3 =	4 ÷ 2 =
8 ÷ 2 =	16 ÷ 4 =	56 ÷ 7 =	48 ÷ 8 =	100 ÷ 10 =
63 ÷ 7 =	12 ÷ 6 =	27 ÷ 3 =	40 ÷ 4 =	8 ÷ 4 =
4 ÷ 2 =	54 ÷ 9 =	81 ÷ 9 =	70 ÷ 10 =	72 ÷ 9 =
3 ÷ 3 =	16 ÷ 2 =	48 ÷ 8 =	16 ÷ 2 =	25 ÷ 5 =
36 ÷ 4 =	12 ÷ 3 =	21 ÷ 7 =	4 ÷ 4 =	18 ÷ 2 =
12 ÷ 2 =	72 ÷ 8 =	54 ÷ 9 =	28 ÷ 7 =	16 ÷ 4 =
18 ÷ 6 =	56 ÷ 8 =	80 ÷ 8 =	18 ÷ 3 =	40 ÷ 5 =
49 ÷ 7 =	10 ÷ 2 =	28 ÷ 4 =	36 ÷ 9 =	72 ÷ 9 =
35 ÷ 5 =	63 ÷ 7 =	40 ÷ 8 =	42 ÷ 6 =	9 ÷ 3 =
30 ÷ 5 =	72 ÷ 9 =	6 ÷ 2 =	49 ÷ 7 =	36 ÷ 4 =
54 ÷ 9 =	50 ÷ 5 =	72 ÷ 9 =	12 ÷ 6 =	1 ÷ 1 =
9 ÷ 3 =	24 ÷ 8 =	24 ÷ 6 =	10 ÷ 5 =	63 ÷ 7 =
42 ÷ 7 =	30 ÷ 6 =	6 ÷ 3 =	70 ÷ 7 =	16 ÷ 8 =