Students entering grade 4

Dear Parents and Students,

Attached, please find this year's summer practice packet for math. These packets will be due to the homeroom or mathematics teacher on the first day of school and will count as a grade for the first trimester. Please see rubric below for grading details. As you will see on the rubric, in order to receive the full 30 points, all problems must be complete, neat and organized, with detailed work shown for each problem (where applicable). Thank you in advance for your focused effort on this year's summer math packet. It is our hope that completing the math packet will reinforce the skills taught this year. We hope you enjoy a fantastic summer and look forward to working with you again this fall.

Sincerely,

Dawn Parker

Dawn Parker

Summer Math Packet Rubric

Name: _____

A. All problems in the packet are complete.

Points: 10 8 6 4 2

B. Detailed work process is shown for each problem (use extra paper as needed).

Points: 10 8 6 4 2

C. Work is neat and organized.

Points: 5 4 3 2 1

D. Summer Practice Packet is handed in on time (the first day of school). One point will be deducted for e ach day the assignment is late.

Points: 5 4 3 2 1

Total Points Possible: 30 Points Earned: _____

Name_____ Date_____

Least to Greatest

Directions: Write the fractions in order from least to greatest.

$\frac{1}{4}$ $\frac{3}{4}$ $\frac{2}{4}$ _____, _____, _____

$\frac{3}{5}$ $\frac{2}{5}$ $\frac{5}{5}$ _____, _____, _____

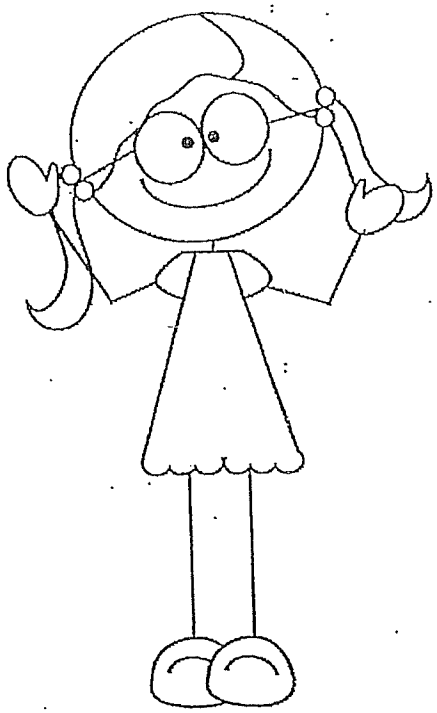
$\frac{3}{8}$ $\frac{2}{8}$ $\frac{4}{8}$ _____, _____, _____

$\frac{4}{9}$ $\frac{6}{9}$ $\frac{1}{9}$ _____, _____, _____

$\frac{6}{10}$ $\frac{2}{10}$ $\frac{1}{10}$ _____, _____, _____

$\frac{1}{6}$ $\frac{4}{6}$ $\frac{2}{6}$ _____, _____, _____

$\frac{5}{5}$ $\frac{3}{5}$ $\frac{2}{5}$ _____, _____, _____



Name_____ Date_____

fact families

Directions: Write the two multiplication and two division sentences for each group of numbers.

2
6 12

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

9
3 27

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

3
8 24

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

5
8 40

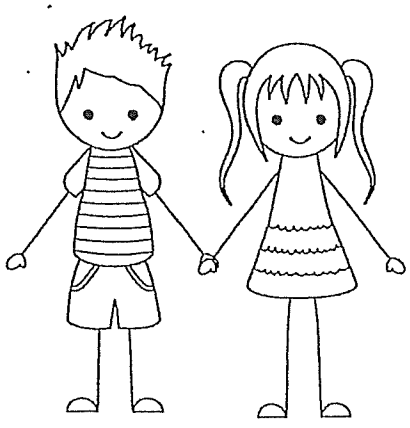
___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

35
7 5

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

16
2 8

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___



4
7 28

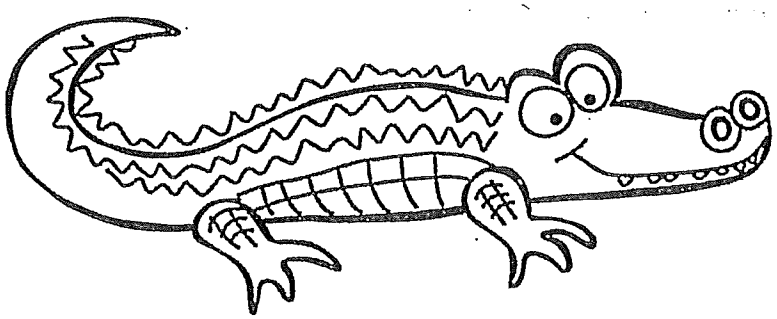
___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

Name_____ Date_____

Compare those numbers

Directions: Use <, >, or = to make the number sentences complete.

12÷4 ◯ 12÷6	9÷3 ◯ 12÷6	9÷9 ◯ 8÷2
8÷2 ◯ 15÷5	12÷3 ◯ 14÷7	12÷6 ◯ 14÷2
7÷7 ◯ 18÷6	18÷3 ◯ 16÷4	18÷2 ◯ 27÷9
14÷2 ◯ 9÷3	20÷5 ◯ 8÷1	15÷5 ◯ 3÷3
18÷9 ◯ 10÷2	14÷7 ◯ 16÷8	21÷3 ◯ 25÷5
12÷3 ◯ 10÷5	15÷3 ◯ 28÷7	6÷6 ◯ 12÷2
6÷3 ◯ 3÷1	15÷3 ◯ 14÷7	16÷8 ◯ 18÷6

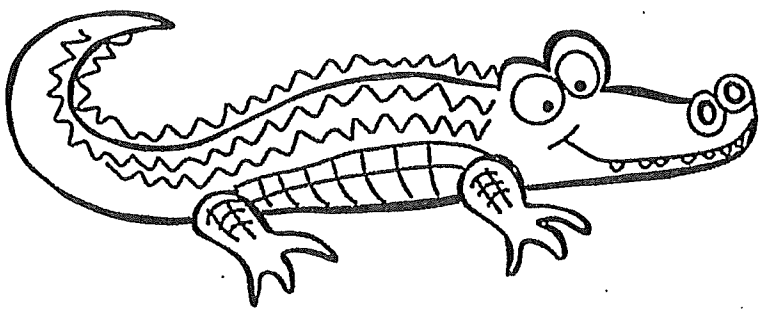


Name_____ Date_____

Compare those numbers

Directions: Use <, >, or = to make the number sentences complete.

7x5 ◯ 3x6	9x3 ◯ 4x7	9x9 ◯ 7x8
8x2 ◯ 5x5	2x9 ◯ 4x6	3x6 ◯ 7x2
7x7 ◯ 8x5	3x8 ◯ 7x4	8x6 ◯ 7x4
2x7 ◯ 1x7	4x4 ◯ 8x1	5x7 ◯ 2x3
8x9 ◯ 10x7	4x2 ◯ 6x8	1x3 ◯ 7x5
2x8 ◯ 7x7	5x8 ◯ 7x6	3x0 ◯ 7x5
8x3 ◯ 3x1	7x3 ◯ 9x1	8x8 ◯ 4x5



Name _____

Use Multiplication Patterns

Use a basic fact and a pattern to find the products.

1. $3 \times 10 =$ 30
   $3 \times 100 =$ 300
   $3 \times 1{,}000 =$ 3,000

2. $10 \times 2 =$ _____
   $100 \times 2 =$ _____
   $1{,}000 \times 2 =$ _____

3. $8 \times 10 =$ _____
   $8 \times 100 =$ _____
   $8 \times 1{,}000 =$ _____

4. $10 \times 6 =$ _____
   $100 \times 6 =$ _____
   $1{,}000 \times 6 =$ _____

5. $5 \times 10 =$ _____
   $5 \times 100 =$ _____
   $5 \times 1{,}000 =$ _____

6. $10 \times 7 =$ _____
   $100 \times 7 =$ _____
   $1{,}000 \times 7 =$ _____

Find the product.

7. $10 \times 3 =$ _____
8. $9 \times 100 =$ _____
9. _____ $= 6 \times 100$
10. $1{,}000 \times 9 =$ _____
11. _____ $= 5 \times 10$
12. $4 \times 100 =$ _____
13. _____ $= 2 \times 10$
14. _____ $= 1{,}000 \times 1$
15. $7 \times 1{,}000 =$ _____

Problem Solving REAL WORLD

Use the picture graph for 16–17.

Rock Collections

Name	Number of Rocks
Eva	○ ○ ○ ○ ○ ○ ○
Tim	○ ○ ○ ○
Sam	

Key: Each ○ = 10 rocks.

16. How many rocks does Eva have? Explain how you found your answer.

_____

_____

17. Sam has 30 more rocks in his collection than Tim. Draw rocks in the picture graph to show the number of rocks in Sam's collection. Explain your answer.

_____

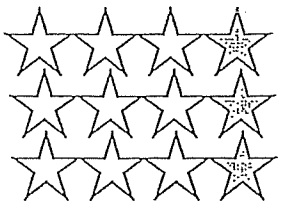
_____

_____

Name_____ Date_____

fraction action

Directions: What fraction of the group is shaded?



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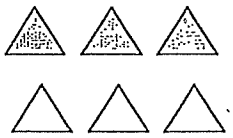

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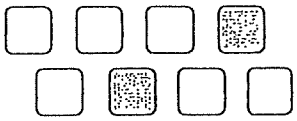

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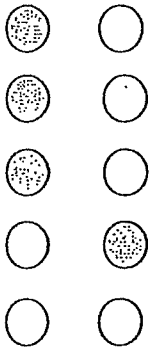
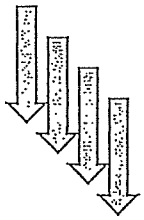
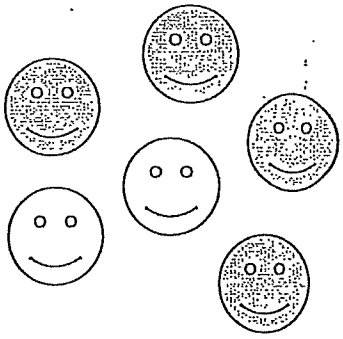


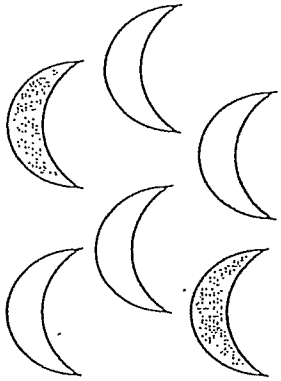
_____



_____



_____



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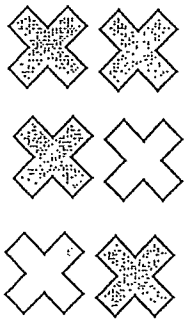

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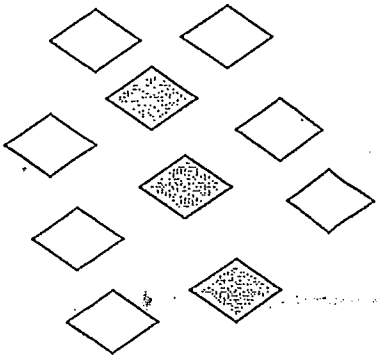


_____

Name _____

Compare 3- and 4-Digit Numbers

Compare the numbers. Write <, >, or = in the ◯.

1. 576 ◯ 567
2. 9,876 ◯ 9,886
3. 490 ◯ 409
4. 7,245 ◯ 7,245
5. 2,145 ◯ 2,245
6. 9,304 ◯ 9,034
7. 8,691 ◯ 8,691
8. 245 ◯ 254
9. 1,807 ◯ 807
10. 5,247 ◯ 5,247
11. 3,485 ◯ 3,548
12. 1,953 ◯ 9,351
13. 6,310 ◯ 6,310
14. 589 ◯ 5,890
15. 760 ◯ 1,760
16. 5,123 ◯ 5,321
17. 7,645 ◯ 7,546
18. 5,612 ◯ 5,622

Problem Solving REAL WORLD

19. On Saturday, 4,567 people saw the new animal movie. On Sunday, 4,078 people saw the movie. Use <, >, or = to compare the number of people who saw the movie on the two days.

_____

20. Captain Fry flies 1,764 miles. Captain Hale flies 764 miles. Who flies more miles?

_____

21. Adam says he is 1,352 millimeters tall. Bobby says that he is 1,452 millimeters tall. Who is shorter?

_____

Name: _____

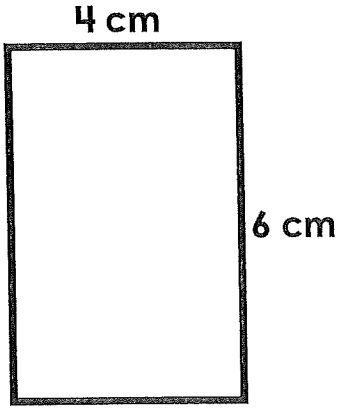
Daily Math Practice

D

005

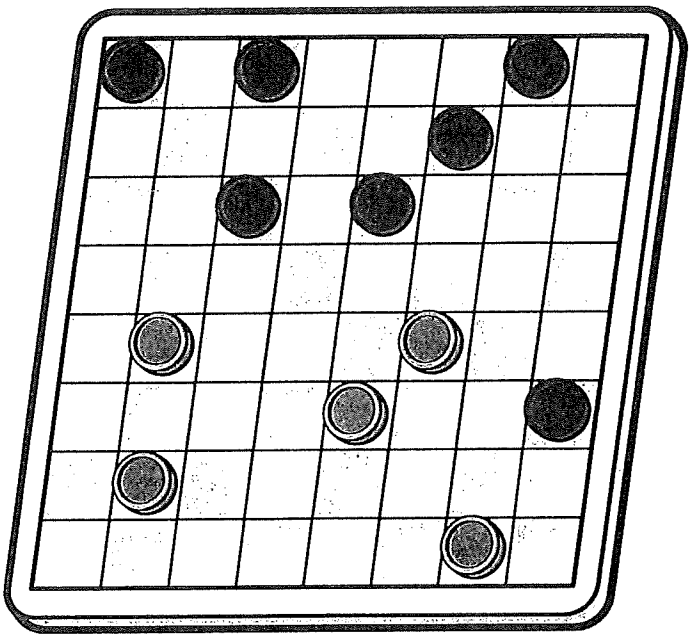
Math Buzz

Find the perimeter of the rectangle.



Perimeter = _____ **centimeters**

Olivia and Lorenzo are playing checkers. What fraction of the checkers are black?



_____ **of the checkers are black.**

Fill in the missing numbers.

4 x ☐ = 16

30 = 6 x ☐

☐ x 3 = 24

Write the number in word and expanded form.

760

word: _____

expanded: _____

Compare each set of numbers using <, >, =.

245 _____ 194

546 _____ 562

679 _____ 960

Name_____ Date_____

subtract those numbers

Directions: Solve each problem.

536 -217	523 -351	631 -250	605 -238	547 -389
662 -123	901 - 23	561 -165	603 -169	195 -100
786 -116	624 -107	620 -360	601 -128	510 -375
732 -681	601 -438	542 -365	814 -363	386 -202

Name: _____

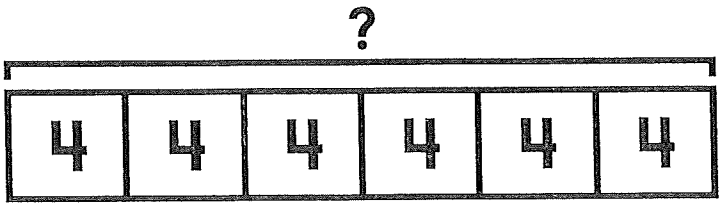
Daily Math Practice

D

004

Math Buzz

Mrs. Randall divided her class into six equal groups for a science activity. If there were four students in each group, how many total students were in Mrs. Randall's class?



_____ x _____ = _____

answer: _____ **students**

Subtract. *Show your work*

Find the difference between 603 and 348.

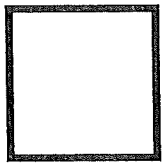
_____

974 – 596 = _____

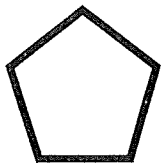
721
– 485

How many **sides** does each shape have?

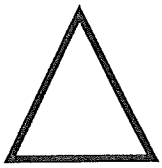
_____ **sides**



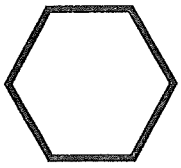
_____ **sides**



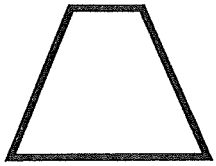
_____ **sides**



_____ **sides**



_____ **sides**



_____ **sides**

Write the number in word and expanded form.

235

word: _____

expanded: _____

Multiply.

3 x 50 = _____

_____ = 20 x 9

5 x 40 = _____

Name _____

Read and Write Numbers to Ten Thousands

Write the number in standard form.

1. 2,000 + 600 + 30 + 5 2,635
2. five thousand, three hundred sixty _____
3. 8,000 + 800 + 90 + 9 _____
4. one thousand, fifty-one _____
5. three thousand, six hundred nine _____

Write the value of the underlined digit two ways.

6. 5,8̲96

_____

7. 4,4̲92

_____

8. 1̲,350

_____

9. 3,4̲13

_____

10. Rename 4,180 as hundreds and tens.

_____ hundreds _____ tens

11. Rename 7,168 as tens and ones.

_____ tens ___ ones

Problem Solving REAL WORLD

12. The population of a town is 4,951 people. What is the value of the digit 4 in the number?

_____

13. The number of tourists who visited a national park in one day was nine thousand, four hundred twelve. Write this number in two other ways.

_____

_____

Name: _____

Daily Math Practice D 003

Math Buzz

Summer Reading	
Arden	
Jayden	
Lincoln	
Sophia	

Each  = 2 books

Which student read 6 books?

answer: _____

How many more books did Lincoln read than Sophia?

answer: _____

How many books did the students read combined?

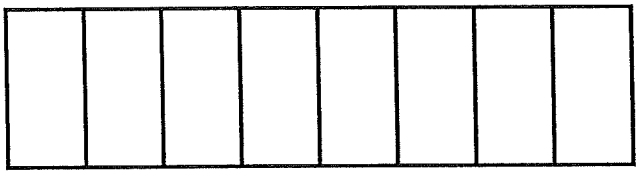
answer: _____

Order the numbers from **greatest to least**.

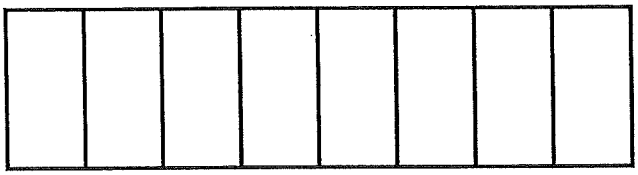
539 395 953

_____ _____ _____

Shade seven eighths.



Shade five eighths.



Write the number in standard and expanded form.

eight hundred thirteen

standard: _____

expanded: _____

Compare using >, <, =.

$\frac{7}{8}$ ____ $\frac{5}{8}$

Multiply.

7 x 4 = _____ _____ **= 9 x 9** **8 x 6 =** _____

Name_____ Date_____

fact families

Directions: Write the two multiplication and two division sentences for each group of numbers.

3
5 15

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

9
6 54

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

4
8 32

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

5
9 45

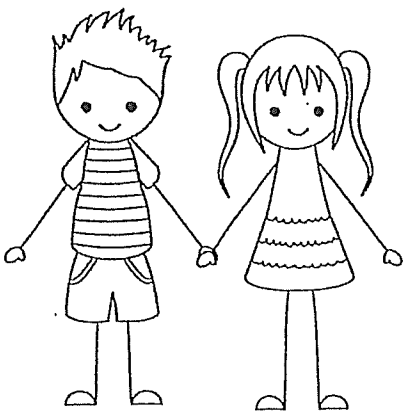
___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

28
7 4

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___

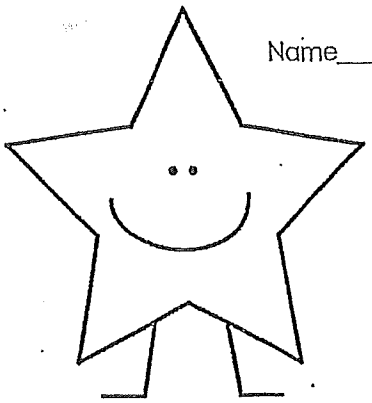
48
6 8

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___



6
7 42

___ X ___ = ___
___ X ___ = ___
___ ÷ ___ = ___
___ ÷ ___ = ___



Name_____ Date_____

add it up

Directions: Solve each problem.

827 + 36	613 + 51	461 + 32	455 + 28	647 + 39
312 + 53	291 + 16	265 + 31	343 + 69	115 + 18
776 + 16	664 + 18	230 + 50	481 + 18	910 + 75
333 + 61	831 + 38	742 + 35	514 + 63	366 + 32

Name: _____

Daily Math Practice

D

002

Math Buzz

Add. *Show your work*

Find the sum of 129 and 874.

_____

298 + 607 = _____

445
+ 386

The DeCarlo family drove a total of 748 miles on their roadtrip. The first week, they drove 309 miles to Washington, D.C. and the second week they drove to Boston. Choose the operation you would use to find how many miles the DeCarlo family drove to Boston.

Add **Subtract**

Multiply **Divide**

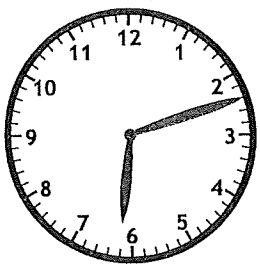
Multiply.

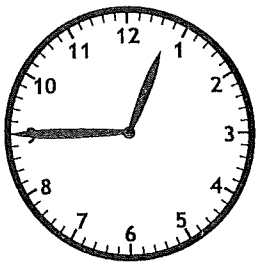
4 x 9 = _____

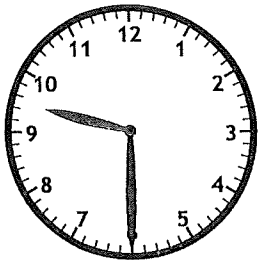
_____ = 6 x 7

3 x 8 = _____

Draw a line to match each clock to the time shown.

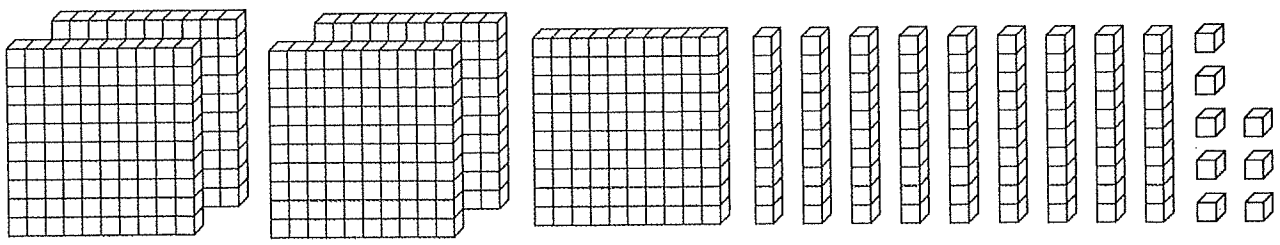






9:30 6:12 12:45

Count the blocks.



What number is shown? _____

Students entering grade 4.

Name _____

Numbers to Ten Thousand

Complete the packing chart. Use the fewest packages possible. When there is a zero, use the next smaller size package.

	Number of Blocks Ordered	Crates (Ten Thousands)	Boxes (Thousands)	Cases (Hundreds)	Stacks (Tens)	Single Blocks (Ones)
1.	1,492	0	1	4	9	2
2.	3,016				1	
3.	2,804					
4.	4,675					
5.	1,727	0	0		2	7
6.	2,351		0		0	
7.	5,008		0		0	
8.	4,976		0		0	

Problem Solving REAL WORLD

9. A worker at the block factory packed blocks in 3 boxes of 1,000, 4 cases of 100, and 9 single blocks. How many blocks did the worker pack?

_____

10. Matt needs to pack an order for 1,816 blocks. How can Matt pack the blocks without using boxes of 1,000?

_____

_____

_____

Name: _____

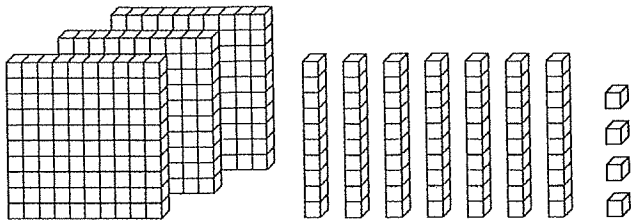
Daily Math Practice

D

001

Math Buzz

Count the blocks.



Hundreds	Tens	Ones

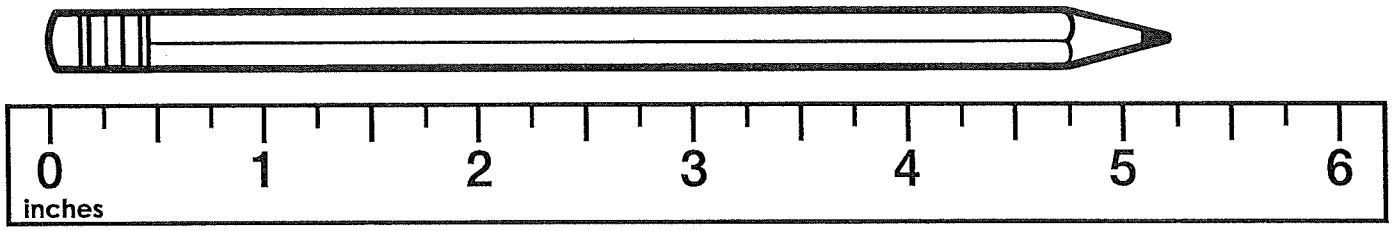
What number is shown? _____

Order the numbers from **least to greatest.**

842, 284, 428

_____ , _____ , _____

How long is Gianna's pencil?



5 inches **$5\frac{1}{4}$ inches** **$5\frac{1}{2}$ inches** **$5\frac{3}{4}$ inches**

Multiply.

8 x 5 = _____

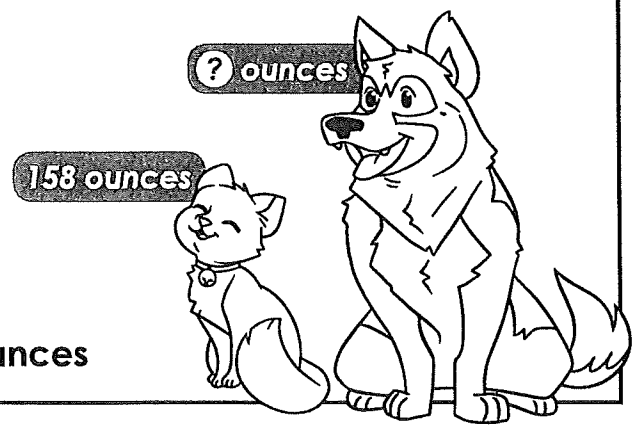
_____ = 1 x 9

3 x 10 = _____

_____ = 7 x 0

Elan took his cat and dog for a wellness visit at the pet clinic. His cat weighed 158 ounces and his dog weighed 482 ounces more than his cat. How much does Elan's dog weigh?

Show your work



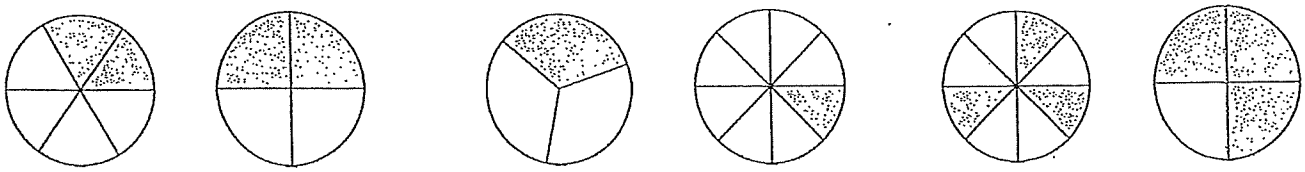
answer: _____ **ounces**

Name_____ Date_____

Same Numerators

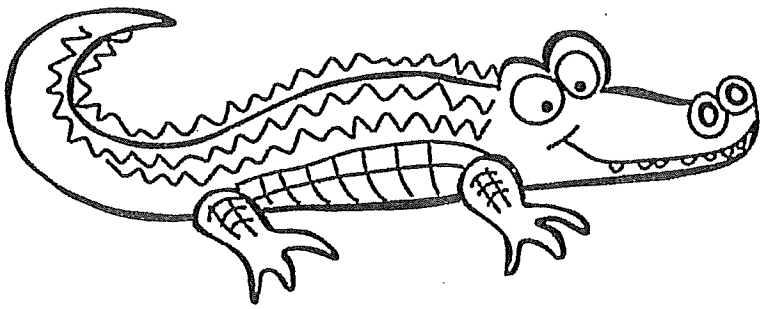
Directions: Use <, >, or = to make the number sentences complete.
Draw & color the fraction circles to help you as shown in the first row.

$\frac{2}{6}$ ◯ $\frac{2}{4}$ $\frac{1}{3}$ ◯ $\frac{1}{8}$ $\frac{3}{8}$ ◯ $\frac{3}{4}$



$\frac{4}{10}$ ◯ $\frac{4}{8}$ $\frac{2}{8}$ ◯ $\frac{2}{6}$ $\frac{1}{3}$ ◯ $\frac{1}{5}$

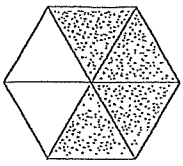
$\frac{2}{6}$ ◯ $\frac{2}{8}$ $\frac{4}{8}$ ◯ $\frac{4}{10}$ $\frac{1}{5}$ ◯ $\frac{1}{6}$



Name_____ Date_____

fraction action

Directions: Write the number of equal parts in the whole. Then write the fraction for the shaded part.

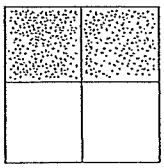


_____ equal parts

_____

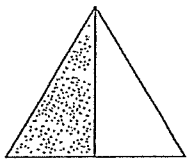
_____ equal parts

_____



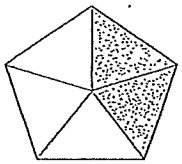
_____ equal parts

_____



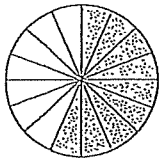
_____ equal parts

_____



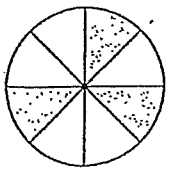
_____ equal parts

_____



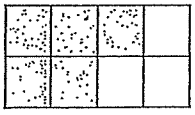
_____ equal parts

_____



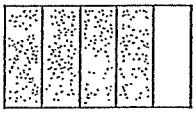
_____ equal parts

_____



_____ equal parts

_____



_____ equal parts

_____