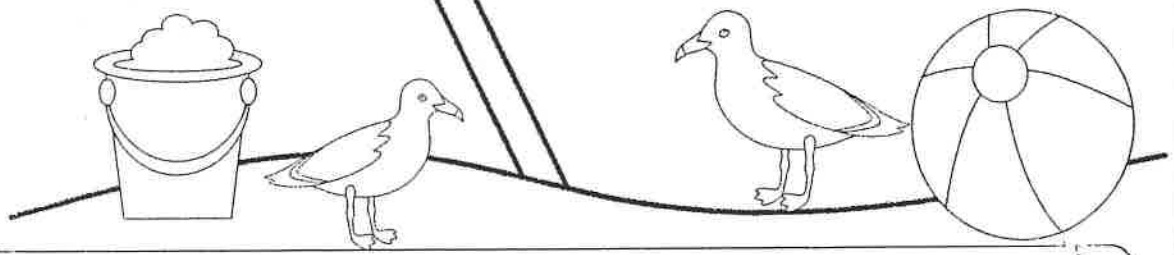
Summer Math Packet

Practice your Math skills from 3rd grade this summer! Make sure to take your time because this will be your <u>first Math grade</u> in 4th grade!



Name

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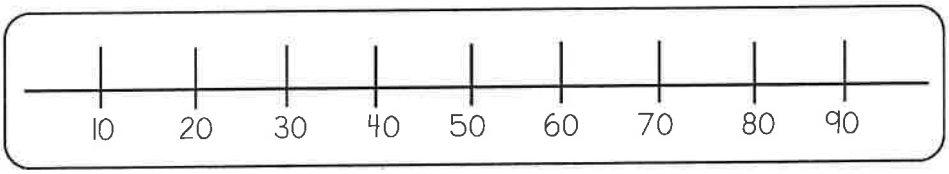
3.NBT.1

Rounding

Use the number line to round each number to the nearest 10.



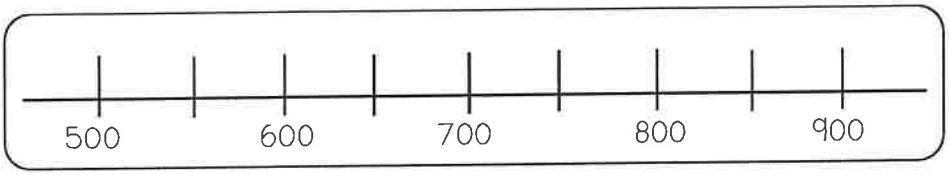
67 rounds to _____

89 rounds to _____

22 rounds to _____

45 rounds to _____

Use the number line to round each number to the nearest 100.



730 rounds to _____

803 rounds to _____

567 rounds to _____

658 rounds to _____

Underline the tens place, then round to the closest ten.

459 rounds to _____

1,284 rounds to _____

4, 338 rounds to _____

144 rounds to _____

Underline the hundreds place, then round to the closest hundred.

622 rounds to _____

867 rounds to _____

22, 567 rounds to _____

3, 709 rounds to _____

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3.NBT.2

Addition & Subtraction

Use place value to add or subtract. Don't forget to regroup or borrow!

738 − 227	519 + 347	258 + 565	127 + 290	973 − 869
900 − 158	545 + 139	376 − 148	29 − 8	294 + 332
537 − 428	734 − 327	164 + 230	437 + 184	356 + 442
56 + 32	761 − 489	600 − 398	491 − 51	271 + 425

A television program lasts for 120 minutes. Of that time, 36 minutes are taken up by commercials. What is the length of the actual program without the commercials?

_____ minutes

Mark has 215 baseball cards. Emily has 454 baseball cards. How many baseball cards do Mark and Emily have altogether?

_____ baseball cards

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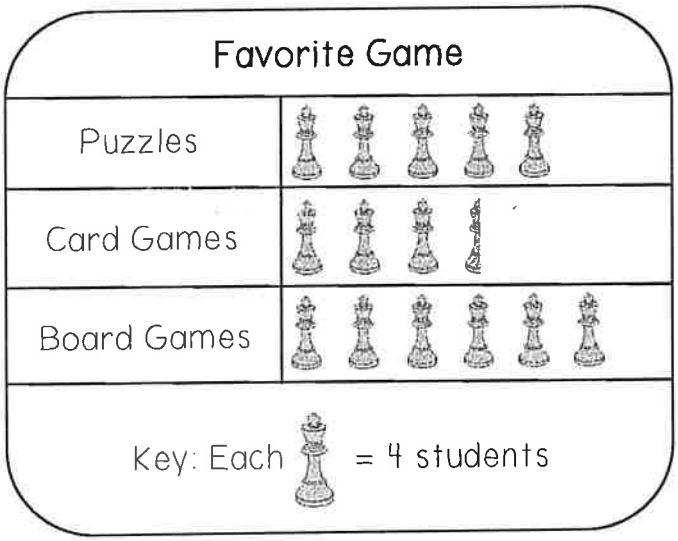
3.MD.3

Analyze Data

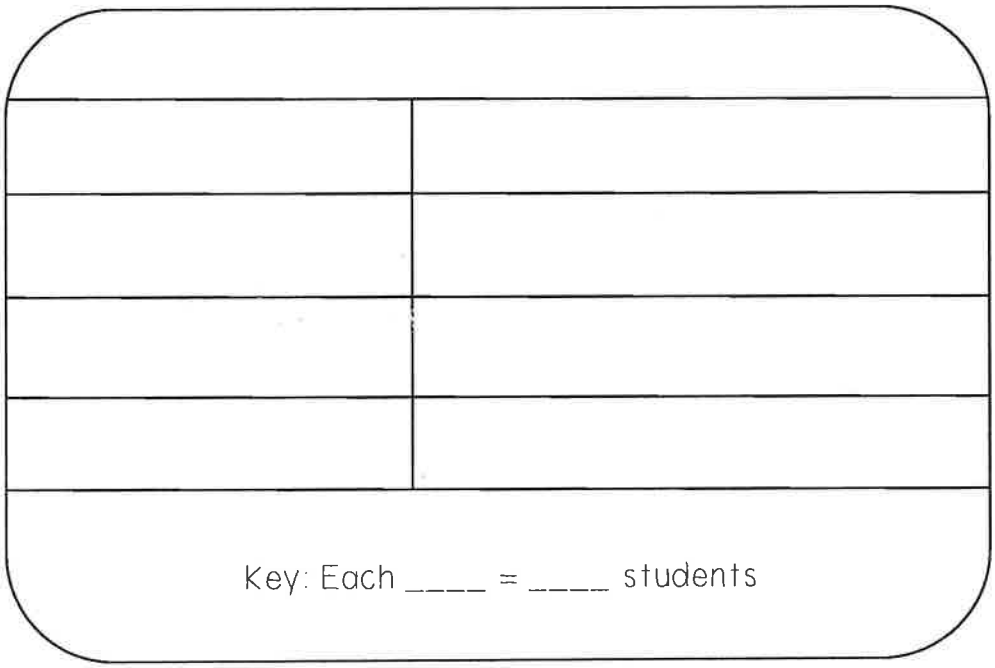
Answer the following questions using the pictograph below.



1. How many students chose puzzles? _____ students
2. How many fewer students chose card games than board games?
   _____ students
3. Which two types of games did a total of 34 students choose?
   _____ and _____
4. How many students were surveyed? _____ students
5. How many students did not choose card games?
   _____ students
6. What if computer games were added as a choice and more students chose it than puzzles, but fewer students chose it than board games? How many students could have chosen computer games? _____ students

Delia made the table at the right. She used it to record the places the third grade classes would like to go during a field trip. Use the data from the frequency chart to make a pictograph in the space below.

Field Trip Choices	
Museum	6
Science Center	15
Aquarium	12
Zoo	9

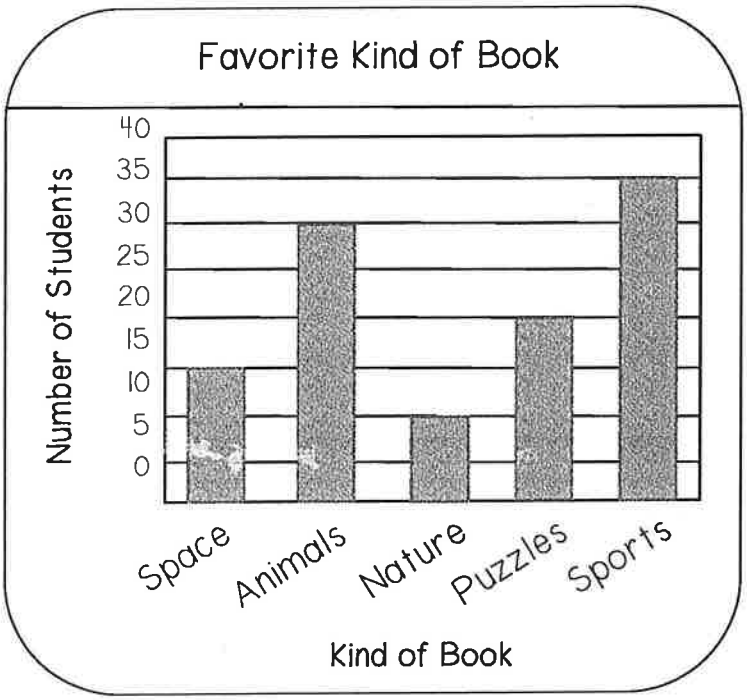


How many fewer students chose the Museum than the Science Center? _____ students

How many students would rather go to the Aquarium and Zoo?

_____ students

Answer the following questions using the bar graph below.



1. Which kind of book was chosen by half of the number of students as books about animals? _____
2. Did more students choose books about sports or books about animals and nature together? _____
3. Which two kinds of books together did students choose as often as books about sports? _____ & _____
4. How many more students chose sports than puzzles? _____ students
5. How many fewer students chose space than animals? _____ students

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3 OA 5

Multiplication Facts

Find the product

8 x 3	7 x 8	3 x 7	5 x 6	7 x 5	4 x 9	12 x 4
9 x 9	8 x 6	12 x 7	5 x 2	12 x 8	10 x 12	7 x 9
7 x 4	12 x 12	11 x 10	6 x 9	8 x 8	7 x 7	4 x 1
3 x 4	6 x 2	12 x 3	12 x 9	12 x 6	6 x 7	11 x 11

5 x 6 = ___	9 x 8 = ___	12 x 12 = ___	4 x 5 = ___	5 x 4 = ___
2 x 3 = ___	6 x 6 = ___	3 x 3 = ___	1 x 8 = ___	9 x 5 = ___
4 x 9 = ___	6 x 4 = ___	12 x 2 = ___	5 x 7 = ___	3 x 4 = ___
5 x 2 = ___	12 x 3 = ___	8 x 4 = ___	10 x 6 = ___	1 x 10 = ___
4 x 4 = ___	3 x 9 = ___	2 x 6 = ___	11 x 4 = ___	1 x 2 = ___

CCS
3 OA 5

Division Facts

Find the quotient

$5\overline{)30}$	$2\overline{)20}$	$11\overline{)121}$	$3\overline{)36}$	$7\overline{)21}$	$6\overline{)12}$	$9\overline{)63}$
$2\overline{)24}$	$9\overline{)81}$	$7\overline{)35}$	$4\overline{)32}$	$5\overline{)45}$	$4\overline{)24}$	$8\overline{)56}$
$9\overline{)72}$	$7\overline{)42}$	$6\overline{)18}$	$3\overline{)30}$	$8\overline{)40}$	$6\overline{)54}$	$8\overline{)64}$
$3\overline{)24}$	$4\overline{)12}$	$8\overline{)72}$	$4\overline{)16}$	$7\overline{)28}$	$3\overline{)9}$	$10\overline{)100}$

$8 \div 4 =$ ___	$16 \div 2 =$ ___	$35 \div 7 =$ ___	$54 \div 6 =$ ___	$30 \div 6 =$ ___
$63 \div 7 =$ ___	$6 \div 3 =$ ___	$12 \div 2 =$ ___	$20 \div 4 =$ ___	$36 \div 4 =$ ___
$9 \div 3 =$ ___	$12 \div 6 =$ ___	$18 \div 3 =$ ___	$24 \div 4 =$ ___	$40 \div 4 =$ ___
$24 \div 6 =$ ___	$20 \div 5 =$ ___	$48 \div 8 =$ ___	$14 \div 2 =$ ___	$28 \div 4 =$ ___

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3 OA 4
3 OA 6

Missing Factors

Solve for the missing factor.

▲ x 8 = 64 | m x 4 = 28 | 5 x ♥ 40 | w x 7 = 35

▲ = _____ | m = _____ | ♥ = _____ | w = _____

30 = d x 3 | 56 = 8 x ★ | b x 6 = 54 | 7 x k = 42

d = _____ | ★ = _____ | b = _____ | k = _____

Solve the equations.

4 x _____ = 28 | 7 x _____ = 35 | 9 x _____ = 27

28 ÷ 4 = _____ | 35 ÷ 7 = _____ | 27 ÷ 9 = _____

4 x _____ = 36 | 8 x _____ = 40 | 2 x _____ = 16

36 ÷ 4 = _____ | 40 ÷ 8 = _____ | 16 ÷ 2 = _____

Use fact families to help you find the missing number.

4 x 9 = _____ | _____ x 7 = 35 | 6 x _____ = 18

_____ x 4 = 36 | 5 x _____ = 35 | 3 x 6 = _____

36 ÷ _____ = 9 | _____ ÷ 7 = 5 | 18 ÷ _____ = 3

_____ ÷ 9 = 4 | 35 ÷ 5 = _____ | _____ ÷ 3 = 6

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3.OA.3

Problem Solving

Solve the problems below. Write a multiplication or division equation.

Marcia is makings 4 cheese sandwiches. If she puts 2 slices of cheese on each sandwich, how many slices of cheese does Marcia use in all?

_____ ◯ _____ = _____ slices of cheese

Thomas works in a cafeteria kitchen. If he makes 5 salads with 3 cherry tomatoes on each salad, how many tomatoes does he use?

_____ ◯ _____ = _____ cherry tomatoes

Mrs. Costa has 18 pencils. She gives 9 pencils to each of her children for school. How many children does Mrs. Costa have?

_____ ◯ _____ = _____ children

Mary decides to plant 24 rose bushes in her garden. She places 6 bushes in each row. How many rows of rose bushes does she plant in her garden?

_____ ◯ _____ = _____ rows

CCS
3 OA 3

Problem Solving

Solve the 2-step problems below. Use +, - x, or ÷ .

Of 77 third graders, on Monday 3 were absent from Room 101, 4 were absent from Room 102, and 2 were absent from Room 103. How many third graders attended school that day?

_____ ◯ _____ ◯ _____ = _____

_____ ◯ _____ = _____ students attended school

Ms. Diaz gave 5 toothpicks to each of 9 children for an art project. The full box she started with held 100 toothpicks. How many toothpicks did she have left?

_____ ◯ _____ = _____

_____ ◯ _____ = _____ toothpicks

Each month for 7 months, Eva reads 3 books. How many more books does she need to read before she has read 30 book?

_____ ◯ _____ = _____

_____ ◯ _____ = _____ books

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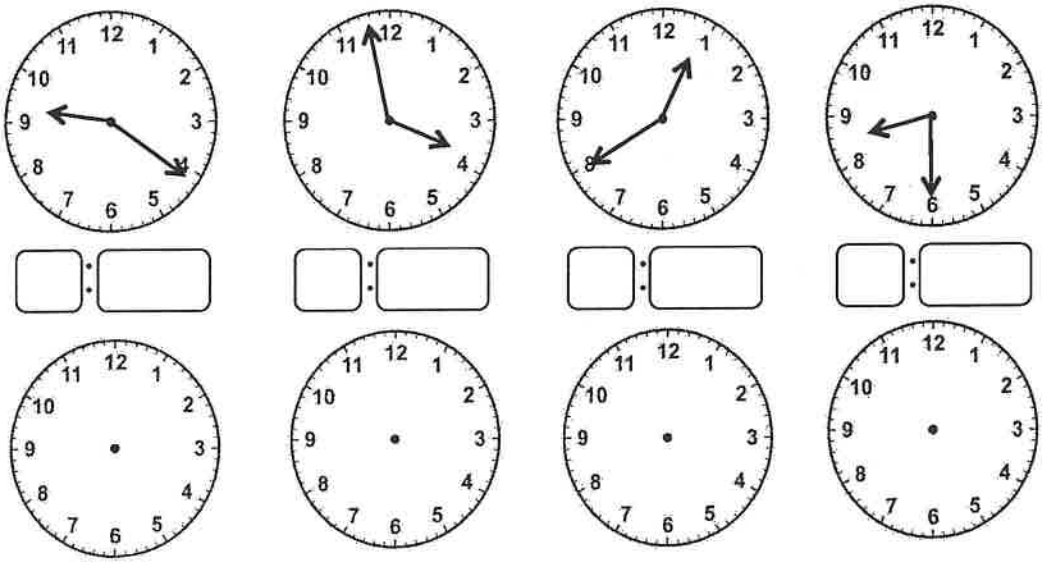
3.MD.1

Telling Time

Write the time that is shown on the clock, or draw the hands to shown the given time.



12: 34 6. 56 10:20 2:15

What time will it be in 20 minutes if it is now...

2:10 ___:_____ 8:15 ___:_____ 7:35 ___:_____

What time will it be in 2 hours, 15 minutes if it is now...

6:30 ___:_____ 3:35 ___:_____ 4:25 ___:_____

Solve the problem and make sure to show your work.

Hannah wants to meet her friends at the mall. Before leaving home, she does her chores for 60 minutes and eats lunch for 20 minutes. The walk downtown takes 15 minutes. Hannah starts her chores at 11:45 A.M. At what time does she meet her friends?

_____: _____

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3.MD.2

Mass & Capacity

Decide which unit would best be used to measure the mass of each object: grams (g) or Kilograms (Kg). Circle your answer.

cell phone: (g) (kg) large dog: (g) (kg) pencil: (g) (kg)

Circle the best estimate for the mass of each object.

refrigerator	A. 90 kilograms	B. 40 grams	C. 8 kilograms
an apple	A. 4 kilograms	B. 200 grams	C. 2 grams
a key	A. 1 gram	B. 4 kilograms	C. 100 grams

Decide which unit would best be used to measure each: milliliter (mL) or liter (L).

carton of milk: (mL) (L) juice in a baby's bottle: (mL) (L)

water in a bathtub: (mL) (L) medicine: (mL) (L)

Circle the best estimate for the liquid volume of each.

syrup for 2 pancakes	A. 25 mL	B. 2 mL	C. 2 L
soda in a can	A. 2 L	B. 350 mL	C. 350 L
liquid in a spoon	A. 5 L	B. 5 mL	C. 500 mL

Solve.

Louis was served 145 grams of meat and 217 grams of vegetables at a meal. What was the total mass of the meat and vegetables?

_____ grams

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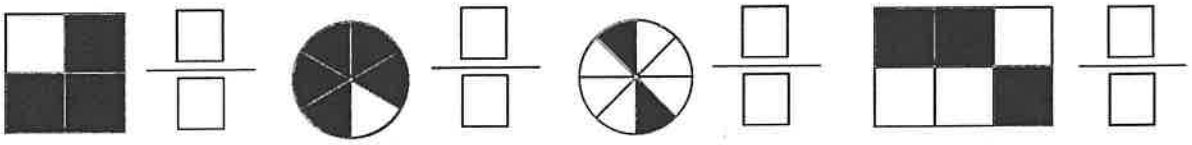
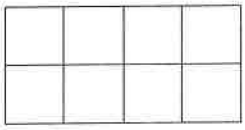
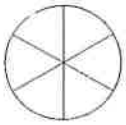
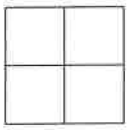
3.NF.1
3.NF.2

Fractions

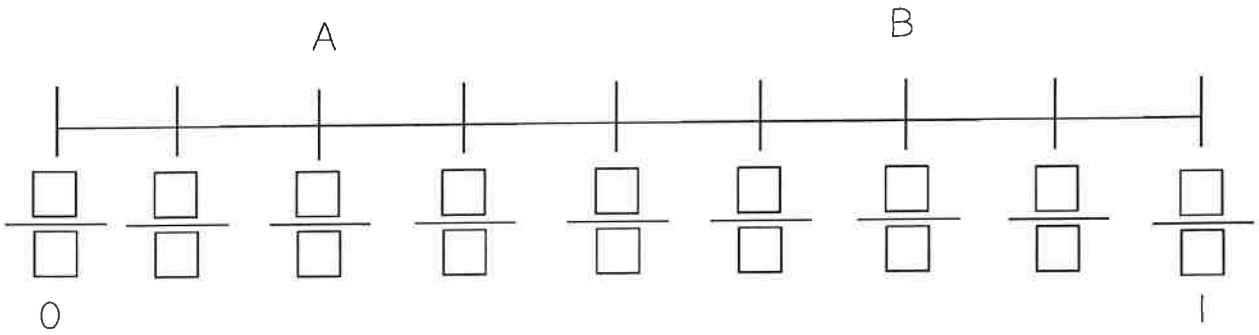
Write the fraction that names each picture.



Color in each picture to represent the fraction.

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

Fill in the missing fractions on the number line. Then answer the questions that follow.



How many parts is the number line broken into? _____ parts

How far is from point A to B on the number line? $\frac{\square}{\square}$

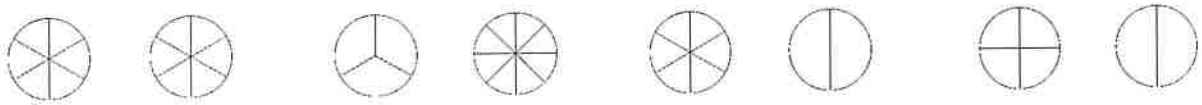
Which fraction represents the number 1 on the number line? $\frac{\square}{\square}$

CCS
3.NF.3

Fractions

Compare each set of fractions using <, >, or =. Color in the pictures below to help you solve.

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



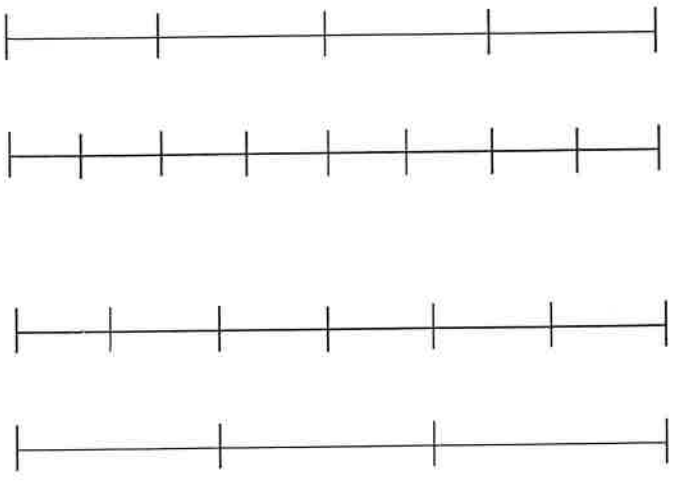
Write an equivalent fraction. Color in each picture to represent the equivalent fractions.

$\frac{4}{8} = \frac{\quad}{\quad}$ $\frac{1}{3} = \frac{\quad}{\quad}$ $\frac{2}{2} = \frac{\quad}{\quad}$ $\frac{3}{4} = \frac{\quad}{\quad}$

Find equivalent fractions using the number lines to locate each point.

$\frac{2}{4} = \frac{\quad}{8}$

$\frac{4}{6} = \frac{\quad}{3}$



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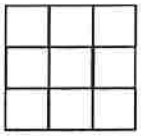
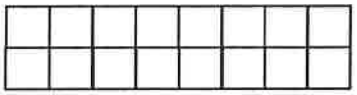
3.MD.5
3.MD.6
3.MD.7

Measurement

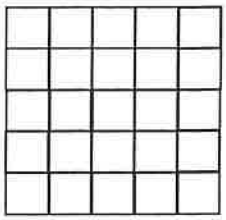
Count the tiles to find the area of each figure.



A = ____ square units

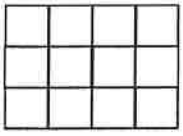


A = ____ square units



A = ____ square units

Write a repeated addition and multiplication sentence to find the area of the figure.



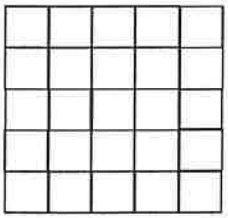
Addition

___+___+___ = ___ square units

Multiplication

___ x ___ = ___ square units

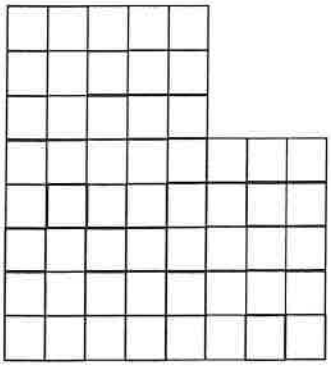
Break up the rectangle into two rectangles by coloring it in two different colors to find the area of the figure.



Rectangle 1: ___ x ___ = ___

Rectangle 2: ___ x ___ = ___

___ + ___ = ___ square units



Rectangle 1: ___ x ___ = ___

Rectangle 2: ___ x ___ = ___

___ + ___ = ___ square units

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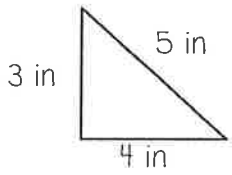
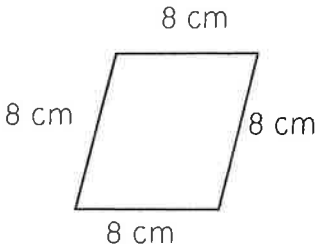
3.MD.8

Measurement

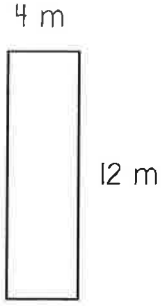
Find the perimeter of each polygon.



P = ____ inches



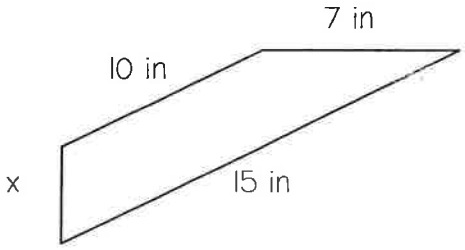
P = ____ centimeters



P = ____ meters

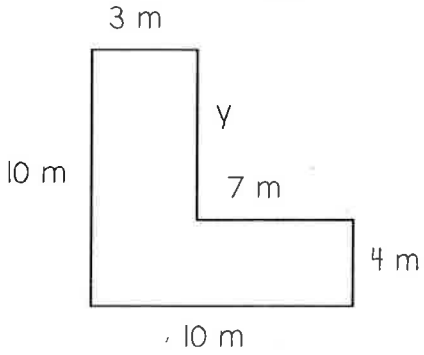
CHALLENGE

Find the unknown side length and/or perimeter of each polygon.



P = 31 inches

x = ____ inches



y = ____ meters

P = ____ meters

Ryan has a rectangular playroom with a perimeter of 26 feet. The length of the playroom is 6 feet. What is the width of the playroom? Use the picture to help you solve.

The width is _____ feet

MULTIPLICATION CHART (Up to 12 times table)

Here is a multiplication chart that will help you to revise your times tables from the 1 times table up to the 12 times table.

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144