Name	Date
Hullic	

Solve the following problems. Use the RDW process.

1. There are 19 identical socks. How many pairs of socks are there? Will there be any socks without a match? If so, how many?



9 pairs with I sock left without a match.

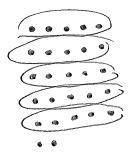
The quotient is 9 and the remainder is 1.

If it takes 8 inches of ribbon to make a bow, how many bows can be made from 3 feet of ribbon (1 foot = 12 inches)? Will any ribbon be left over? If so, how much?

4 bows can be made with 4 inches left over:

The quotient is 4 and the remainder

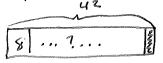
The library has 27 chairs and 5 tables. If the same number of chairs is placed at each table, how many 3. chairs can be placed at each table? Will there be any extra chairs? If so, how many?



5 chairs can be placed at every table. Two chairs are extra.

The quotient is 5 and the remainder is 2.

The baker has 42 kilograms of flour. She uses 8 kilograms each day. After how many days will she need

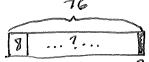


8, 16, 24, 32, 40, 48

42 + 8

The quotient is 5 and the remainder is Z. She will need to buy flour after 5 days.

Caleb has 76 apples. He wants to bake as many pies as he can. If it takes 8 apples to make each pie, how many apples will he use? How many apples will not be used?



76:8

8,16,24,32,40,48,56,72,80

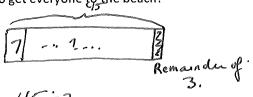
Remainder org 4

The quotient 15 9 and the remainder 13 4,

Calebuill use 72 apples 4 apples will not be used.

* Note that this problem asks students for the apples used not the # of pics made.

Forty-five people are going to the beach. Seven people can ride in each van. How many vans will be required to get everyone to the beach?



7, 14, 21, 28, 35, 42, 49

The quotient is 6 and

Trans will be needed to get every one to the book.

* Note this ask them to interpret the vernainder



Lesson 14: Date:

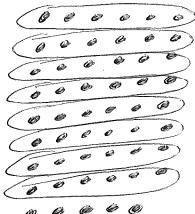
Solve division word problems with remainders.

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N I	Data
Name	Date

Solve the following problem. Use the RDW process.

1. Fifty-three students are going on a field trip to the zoo. Before the trip, a teacher forms groups of students and assigns a chaperone to each group. As much as she can, the teacher divides the students into groups of 6. How many groups of students will there be? Will each group have 6 students? How many total chaperones are needed?



There will be 9 groups of students.
No, 8 groups will have be students and 1 group will have be students and 1 group will have 5 students. The teacher will need 9 Chaperones.

The quotient is 8 and the remainder is 5.

Option: Use this problem with 23 students in stead of 53.

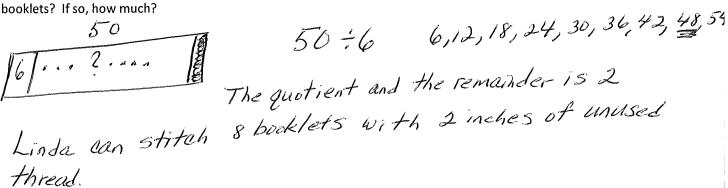
Name Date	9
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Solve the following problems. Use the RDW process.

1. Linda makes booklets using 2 sheets of paper. She has 17 sheets of paper. How many of these booklets can she make? Will she have any extra paper? How many sheets?

The quotient is 8 and the remainder is i

2. Linda uses thread to sew the booklets together. She cuts 6 inches of thread for each booklet. How many booklets can she stitch with 50 inches of thread? Will she have any unused thread after stitching up the booklets? If so, how much?



3. Ms. Rochelle wants to put her 29 students into groups of 6. How many groups of 6 can she make? If she puts any remaining students in a smaller group, how many students will be in that group?

4. A trainer gives his horse, Caballo, 7 gallons of water every day from a 57-gallon container. How many days will Caballo receive his full portion of water from the container? On which number day will the trainer need to refill the container of water?

5. Meliza has 43 toy soldiers. She lines them up in rows of 5 to fight imaginary zombies. How many of these rows can she make? After making as many rows of 5 as she can, she puts the remaining soldiers in the last row. How many soldiers are in that row?

6. Seventy-eight students are separated into groups of 8 for a field trip. How many groups are there? The remaining students form a smaller group of how many students?



Lesson 14: Date:

Solve division word problems with remainders. 8/28/13

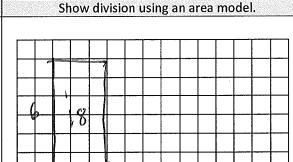


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Show division using an array.

Quotient =
$$3$$

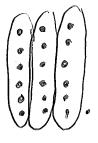
Remainder = 0



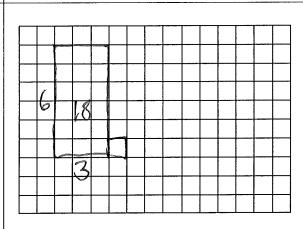
Can you show 18 ÷ 6 with one rectangle? ______

2. $19 \div 6$

1. 18 ÷ 6



Quotient = $_{-}^{3}$ Remainder = ____



Explain how you showed the remainder:

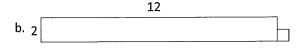
NYS COMMON CORE MATHEMATICS CURRICULUM

Solve using an array and an area model. The first one is done for you.

Example: 25 ÷ 2

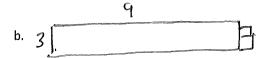


Quotient = 12 Remainder = 1



3. $29 \div 3$

Quotient = 9 Remainder 2



4. 22 ÷ 5

Quotient = 4 Remainder = 2

5. $43 \div 4$

Quotient = 10 Remainder=3



6. $59 \div 7$



COMMON CORE

Lesson 15:

Date:

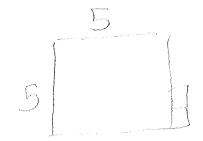
Understand and solve division problems with a remainder using the array and area models. 8/28/13

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Solve using an array and area model.

1. 27 ÷ 5



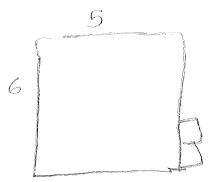


Quotient = 5 Remainder = 2

2. $32 \div 6$

a.



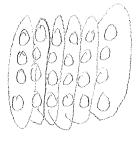


Quotient = 5 Remainder = 2

Show division using an array.

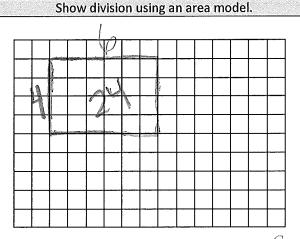
imberlake

1. $24 \div 4$



Quotient = _

Remainder = 0

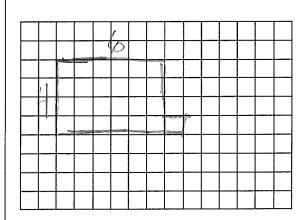


Can you show 24 ÷ 4 with one rectangle?

2. $25 \div 4$



Remainder = ___



Can you show 25 ÷ 4 with one rectangle? <u>NO</u> Explain how you showed the remainder:

Solve using an array and area model. The first one is done for you.

Example: 25 ÷ 3

a.

b.

3

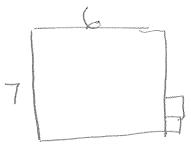
8

Quotient = 8 Remainder = 1

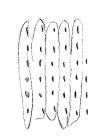
- 3. $44 \div 7$
 - a.



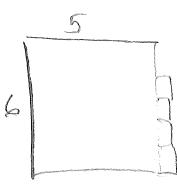
Quotient=6 Remainder=2



- 4. $34 \div 6$
 - a.

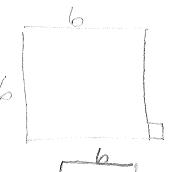


Quotient = 5 Remainder = 4



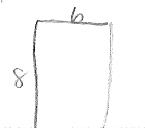
- 5. $37 \div 6$

Quotient = 6.
Remainder = 1 b.



- 6. $46 \div 8$
 - a.

Quotient = 6 b. Remainder = 0



Lesson 15: Date:

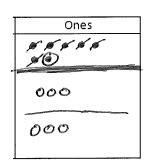
Understand and solve division problems with a remainder using the array and area models. 8/28/13

Name		

Date _____

Show the division using disks. Relate your work on the place value chart to long division. Check your quotient and remainder by using multiplication and addition.

1. 7 ÷ 2



quotient =
$$3$$

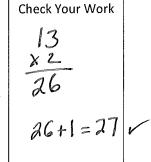
remainder = 1

Check Your Work	
3	
<u>× 2</u>	
6	
6+1=71	

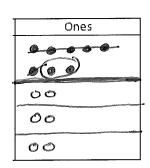
2. $27 \div 2$

Ones
**
000
000

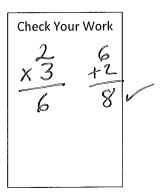
$$\begin{array}{c|c}
13 \\
2 \overline{)27} \\
-2 \\
\hline
07 \\
-6
\end{array}$$
remainder = 1



 $3.8 \div 3$



quotient =
$$\frac{2}{2}$$



Lesson 16:

Understand and solve two-digit dividend division problems with a remainder in the ones place by using number disks.

4. $38 \div 3$

Tens	Ones
8 0 0	10
0	00
0	00
0	00

$$\begin{array}{c|c}
\hline
3 & 3 & 8 \\
\hline
3 & 8 \\
\hline
6 & remainder = 2
\end{array}$$

Check You	r Work	
12	36	
×3	+2	
36	38	V

5. 6 ÷ 4

Ones
6
O
0
O
O

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

6. $86 \div 4$

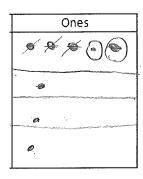
Tens	Ones
0000	
60	0
00	0
00	0
60	D

Name			
Hanne	 		

Date _____

Show the division using disks. Relate your work on the place value chart to long division. Check your quotient and remainder by using multiplication and addition.

1. 5 ÷ 3



remainder =

Check Your Work

2. $65 \div 3$

Tens	Ones
, Ø (Q	-
8 6	
,60	=

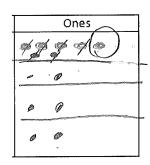
quotient = remainder = **Check Your Work**

Name _____

Date _____

Show the division using disks. Relate your work on the place value chart to long division. Check your quotient and remainder by using multiplication and addition.

1. 7 ÷ 3



remainder =

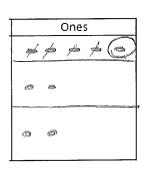
Check Your Work

2. $67 \div 3$

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Check Your Work

3. $5 \div 2$



remainder =

Check Your Work

4. 85 ÷ 2

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Check Your Work

5. 5 ÷ 4

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remainder =

Check Your Work

6. $85 \div 4$

Tens							Ones				
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0	0	,	90.000								

quotient = remainder = **Check Your Work**

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Lesson 16: Date:

Understand and solve two-digit dividend division problems with a remainder in the ones place by using number disks. 8/28/13

Show the division using disks. Relate your model to long division. Check your quotient and remainder by using multiplication and addition. Check Your Work

1. 5 ÷ 2

		Or	nes			
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	0					

- $\begin{array}{c|c}
 2 & \text{quotient} = \underline{2} \\
 -\underline{4} & \text{remainder} = \underline{1}
 \end{array}$

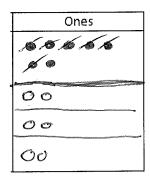
Check Your Work

 $2.50 \div 2$

9 6 6
000
900

- $\begin{array}{c|cccc}
 25 \\
 250 \\
 \hline
 4 \\
 \hline
 10 \\
 -10 \\
 \hline
 \end{array}$ remainder = $\begin{array}{c|cccc}
 25 \\
 x & 2 \\
 \hline
 50 \\
 \end{array}$

 $3.7 \div 3$



Check Your Work
2 3 6 7

COMMON CORE
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Lesson 17:

Date:

Represent and solve division problems requiring decomposing a remainder in the tens.

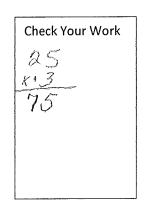
8/28/13

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4. 75 ÷ 3

Tens	Ones
pysppp)	30000
0 0	Ø 6 O O O
Ø 8	80000
0 0	00000

$$\begin{array}{c|cccc}
35 \\
\hline
3 & 75 \\
\hline
-6 \\
\hline
15 \\
\end{array}$$
 quotient = $\begin{array}{ccccc}
25 \\
\hline
25 \\
\hline
75 \\
\end{array}$ Check Yo

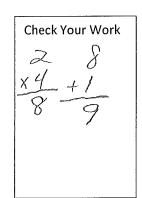


5. $9 \div 4$

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Æ	- 155	6	3		
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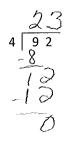
4 9 quotient =
$$\frac{2}{\sqrt{}}$$

remainder = $\frac{2}{\sqrt{}}$

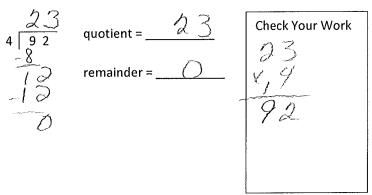


6. $92 \div 4$

Tens	Ones
01	
00	0 0 0
0 0	000
0 0.	1 0 0

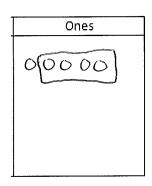


quotient =
$$\frac{23}{}$$



Show the division using disks. Relate your model to long division. Check your quotient by using multiplication and addition.

1. 5 ÷ 4



The state of the s
ones
8 8 8 BO
0
0
0
9

Check Your Work

quotient =
$$\frac{1}{1}$$

remainder = $\frac{1}{4}$
 $\frac{4}{5}$
 $\frac{4}{5}$
 $\frac{4}{5}$
 $\frac{4}{5}$
 $\frac{4}{5}$
 $\frac{4}{5}$

2. $56 \div 4$

Tens	Ones
	700000
	0006
0	ODGO
0	0000
•	0000

$$\begin{array}{c|c}
1 & 4 \\
4 & 5 & 6 \\
\hline
1 & 6 \\
\hline
1 & 6
\end{array}$$
rem

quotient =
$$\frac{14}{0}$$

remainder = $\frac{0}{0}$

Check Your Work (
14
100000000000000000000000000000000000000
56

4. $62 \div 4$

Tens	Ones
\$ \$ \$ \$ \$ 60	60000 0000
	00000
O	00000
0	00000
D	00000

15 RZ	quotient =	15
-41	remainder =	2
-20	_	

Check Yo	ur Work
15 x 4	60
100	+ 2
U ·	Sales and Sales
	62

5. 8 ÷ 3

Ones	
15/1/1/100	
ACTION, 1/2000 agreed control to the best of the action of	
00	1
60	-
00	

$$\frac{2R^{2}}{3R^{8}} = \frac{2}{\text{quotient}}$$

$$\frac{R^{2}}{R^{2}} = \frac{2}{\text{quotient}}$$

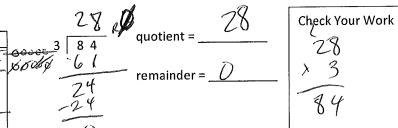
$$\frac{R^{2}}{R^{2}} = \frac{2}{\text{quotient}}$$

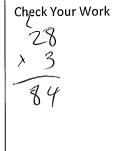
$$\frac{R^{2}}{R^{2}} = \frac{2}{\text{quotient}}$$

Check Y	our Work
3 2 6	42 8

6. $84 \div 3$

	Tens	Ones	
e	46 ph b ph 600	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
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	00	0000000	
	00	000000000	



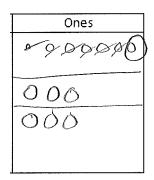


Name _____

Date ___

Show the division using disks. Relate your model to long division. Check your quotient and remainder by using multiplication and addition.

1. 7 ÷ 2



Check Your Work

2. $73 \div 2$

Tens	Ones
88886	8 8 8 8 8 B

000	0 , 1 , 1

Check Your Work

3. $6 \div 4$

•	Ones
	DE 16 16 0
	0
•	0
	0
-	0
	6

Lesson 17:

Represent and solve division problems requiring decomposing a remainder in the tens.

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