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Introduction

Math Mammoth Grade 2 Review Workbook is intended to give students a thorough review of second grade math, addressing most Common Core Standards for second grade. This book has both topical as well as mixed (spiral) review worksheets, and includes both topical tests and a comprehensive end-of-year test. The tests can also be used as review worksheets, instead of tests.

You can use this workbook for various purposes: for summer math practice, to keep the child from forgetting math skills during other break times, to prepare students who are going into third grade, or to give second grade students extra practice during the school year.

The topics reviewed in this workbook are:

- some review, even and odd numbers and doubling
- clock
- addition and subtraction facts within 0 - 18
- regrouping in addition and subtraction
- geometry and fractions
- three-digit numbers
- measuring
- money
- exploring multiplication

In addition to the topical reviews and tests, the workbook also contains many cumulative (spiral) review pages.

The content for these is taken from *Math Mammoth Grade 2 Complete Curriculum*, so naturally this workbook works especially well to prepare students for grade 3 in Math Mammoth. However, the content follows a typical study for grade 1, so this workbook can be used no matter which math curriculum you follow.

Please note: this workbook does not contain lessons or instruction for the topics. It is not intended for initial teaching. It also will not work if the student needs to completely re-study these topics (the student has not learned the topics at all). For that purpose, please consider *Math Mammoth Grade 2 Complete Curriculum*, which has all the necessary instruction and lessons.

I wish you success with teaching math!

Maria Miller, the author

Some Old, Some New Review

1. Add. The problems in each box are similar.

a.	b.	c.	d.
$51 + 7 = \underline{\quad}$	$46 + 3 = \underline{\quad}$	$72 + 5 = \underline{\quad}$	$35 + 5 = \underline{\quad}$
$81 + 7 = \underline{\quad}$	$96 + 3 = \underline{\quad}$	$32 + 5 = \underline{\quad}$	$95 + 5 = \underline{\quad}$

2. Subtract. The problems in each box are similar.

a.	b.	c.	d.
$49 - 5 = \underline{\quad}$	$29 - 3 = \underline{\quad}$	$60 - 7 = \underline{\quad}$	$38 - 4 = \underline{\quad}$
$89 - 5 = \underline{\quad}$	$69 - 3 = \underline{\quad}$	$80 - 7 = \underline{\quad}$	$78 - 4 = \underline{\quad}$

3. a. How much would three shirts that cost \$20 each cost together?

b. Mike went to a yard sale and bought a desk for \$32, a toy car for \$1, a plant for \$2, and some thread for \$4. What was the total cost?

4. Add and subtract whole tens.

a.	b.	c.	d.
$21 + 40 = \underline{\quad}$	$40 + 23 = \underline{\quad}$	$72 - 50 = \underline{\quad}$	$89 - 30 = \underline{\quad}$
$56 + 30 = \underline{\quad}$	$20 + 78 = \underline{\quad}$	$66 - 40 = \underline{\quad}$	$45 - 20 = \underline{\quad}$

5. Use letters from the word **W O N D E R F U L** to make two new words.

1st 5th 9th 9th 4th 2nd 3rd 5th

6. Fill in the missing numbers. The four problems form a fact family.

a. $2 + \square = 10$	b. $\square + \square = 9$	c. $\square + \square = \square$
$\square + 2 = 10$	$\square + \square = 9$	$\square + \square = \square$
$10 - \square = \square$	$9 - 7 = \square$	$8 - \square = 5$
$10 - \square = \square$	$9 - \square = \square$	$\square - \square = \square$

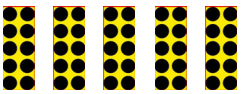
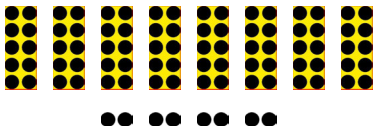
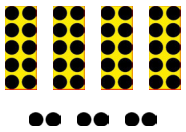
7. The total is missing from the subtraction sentence. Solve.

a. $\square - 8 = 8$	b. $\square - 5 = 4$	c. $\square - 30 = 30$
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8. Circle the even numbers.

72	31	59	60	8
----	----	----	----	---

9. Divide the dots into two EQUAL groups. Find half of the total.

a. 	b. 	c. 
$\frac{1}{2}$ of 50 is _____.	$\frac{1}{2}$ of 88 is _____.	$\frac{1}{2}$ of 46 is _____.

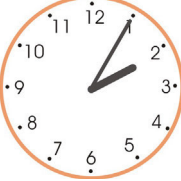
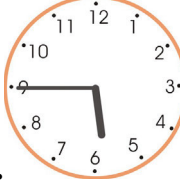
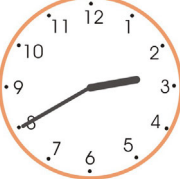
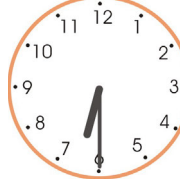

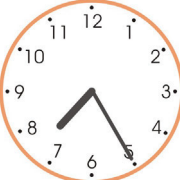
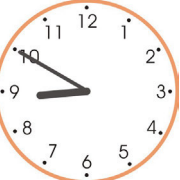
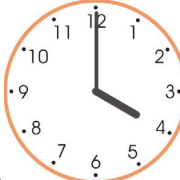
10. Two boys divided 18 toy cars evenly between them.
How many did each boy get?

11. Mrs. Smith used half of her potatoes to make mashed potatoes.
Now she has 13 potatoes left. How many did she have at first?

12. Mary has 13 colored pencils and Tina has twice as many.
How many colored pencils do the girls have together?

Clock Test

1. Write the time with hours:minutes, and using “past”, “till”, “half past” or “o'clock”.

 <p>a.</p> <p>_____ : _____</p> <p>_____ past _____</p>	 <p>b.</p> <p>_____ : _____</p> <p>_____</p>	 <p>c.</p> <p>_____ : _____</p> <p>_____</p>	 <p>d.</p> <p>_____ : _____</p> <p>_____</p>
 <p>e.</p> <p>_____ : _____</p> <p>_____ till _____</p>	 <p>f.</p> <p>_____ : _____</p> <p>_____</p>	 <p>g.</p> <p>_____ : _____</p> <p>_____</p>	 <p>h.</p> <p>_____ : _____</p> <p>_____</p>

2. Write the later time.

Time now	3:50	7:25	Time now	9 AM	12 noon
5 minutes later			1 hour later		

3. Write the time using the **hours:minutes** way.

a. 20 past 4	b. 15 past 11	c. 15 till 12	d. 25 till 7
_____ : _____	_____ : _____	_____ : _____	_____ : _____

4. How many hours pass?

from	5 AM	8 AM	2 AM	10 AM	11 AM
to	12 noon	2 PM	3 PM	10 PM	6 PM
hours					

Mixed Review 1

1. Solve the problems. Fill in the doubles chart. *It has a pattern!* Find it!

a. It will take Alex 16 hours to clean the park. He did half of that yesterday. How many hours will he still have to work?

b. What is double 12?

c. Ava and Emma divided evenly \$30. Then Emma bought a gift for \$6. How much money does Emma have now?

d. Eddie has saved \$20. That is just half of what he needs to buy a train set. How much does the train set cost?

$$10 + 10 = \underline{\hspace{2cm}}$$

$$15 + 15 = \underline{\hspace{2cm}}$$

$$20 + 20 = \underline{\hspace{2cm}}$$

$$25 + 25 = \underline{\hspace{2cm}}$$

$$30 + 30 = \underline{\hspace{2cm}}$$

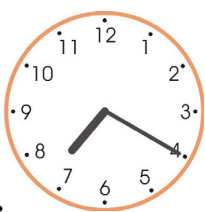
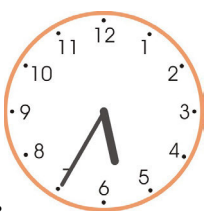
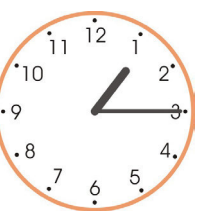
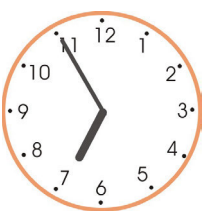
$$35 + 35 = \underline{\hspace{2cm}}$$

$$40 + 40 = \underline{\hspace{2cm}}$$

2. Add and subtract whole tens.

<p>a.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> $+30$ \swarrow 10 </div> <div style="text-align: center;"> $+10$ \searrow <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> </div> <div style="text-align: center;"> <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> -20 \swarrow <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> </div> <div style="text-align: center;"> -20 \searrow <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> </div> </div>	<p>b.</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> -40 \swarrow 60 </div> <div style="text-align: center;"> $+30$ \searrow <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> </div> <div style="text-align: center;"> <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> -40 \swarrow <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> </div> <div style="text-align: center;"> $+20$ \searrow <input style="width: 40px; height: 40px; border: 1px solid black;" type="text"/> </div> </div>
--	--

3. Write the time using *hours:minutes*.

<p>a.</p>  <p>_____ : _____</p>	<p>b.</p>  <p>_____ : _____</p>	<p>c.</p>  <p>_____ : _____</p>	<p>d.</p>  <p>_____ : _____</p>
---	---	--	---

4. a. Anne began watching a film about sea animals at 20 till 4. She stopped watching it at 15 past 4. Write those two times in the *hours:minutes* way.

_____ : _____ and _____ : _____

b. Jim began walking his dog at 11 AM and stopped at noon.
How long did he walk his dog?

c. Bill's rooster crowed for half an hour, starting at 5 AM.
At what time did it stop?

5. Fill in the missing numbers. The four problems form a fact family.

<p>a. $3 + \square = 9$</p> <p>$\square + 3 = 9$</p> <p>$9 - 3 = \square$</p> <p>$9 - \square = 3$</p>	<p>b. _____ + _____ = 10</p> <p>_____ + _____ = 10</p> <p>$10 - 4 = \square$</p> <p>$10 - \square = 4$</p>	<p>c. _____ + _____ = _____</p> <p>_____ + _____ = _____</p> <p>$8 - \underline{\hspace{1cm}} = 3$</p> <p>_____ - _____ = _____</p>
--	--	--

6. Find the letters, and find out what Bob got for his birthday.

The second row from the top,
the second letter from the left. _____

The fourth row from the top,
the fifth letter from the left. _____

The first row from the top,
the fifth letter from the right. _____

The fifth row from the bottom,
the second letter from the right. _____

The 1st row from the bottom,
the 1st letter from the left. _____

The sixth row from the top,
the third letter from the right. _____

The 3rd row from the top,
the 2nd letter from the left. _____

E	S	H	A	B	G	P
B	A	E	N	I	V	S
W	E	K	P	T	O	F
J	D	A	U	-	W	M
Y	K	Z	N	Y	I	C
U	D	T	S	S	Q	R
R	T	H	A	V	E	L

Addition and Subtraction Facts Within 0-18 Review

1. Here are the 20 addition facts with single-digit numbers where the sum is between 10 and 20. Connect the problems to the right answer.

5 + 6		4 + 8		6 + 9
6 + 8	11	6 + 7	15	8 + 8
6 + 6	12	9 + 4	16	7 + 8
4 + 7	13	7 + 7	17	9 + 8
3 + 9	14	2 + 9	18	7 + 9
3 + 8		5 + 7		9 + 9
8 + 5		5 + 9		

2. Connect with a line the problems that are from the same fact family. You don't need to write the answers.

13 - 7 = <input style="width: 20px;" type="text"/>	12 - 5 = <input style="width: 20px;" type="text"/>	15 - 7 = <input style="width: 20px;" type="text"/>
7 + <input style="width: 20px;" type="text"/> = 15	11 - 8 = <input style="width: 20px;" type="text"/>	13 - 6 = <input style="width: 20px;" type="text"/>
11 - 3 = <input style="width: 20px;" type="text"/>	9 + <input style="width: 20px;" type="text"/> = 17	5 + <input style="width: 20px;" type="text"/> = 14
8 + <input style="width: 20px;" type="text"/> = 17	15 - 8 = <input style="width: 20px;" type="text"/>	17 - 8 = <input style="width: 20px;" type="text"/>
14 - 5 = <input style="width: 20px;" type="text"/>	6 + <input style="width: 20px;" type="text"/> = 13	3 + <input style="width: 20px;" type="text"/> = 11
7 + <input style="width: 20px;" type="text"/> = 12	9 + <input style="width: 20px;" type="text"/> = 14	<input style="width: 20px;" type="text"/> + 5 = 12

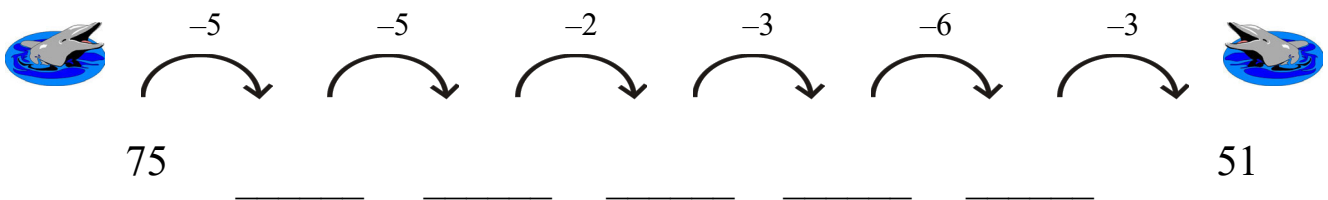
3. Find the differences.

a. The difference of 80 and 87 _____	b. The difference of 45 and 2 _____
c. The difference of 15 and 8 _____	d. The difference of 13 and 4 _____

4. Find the missing numbers.

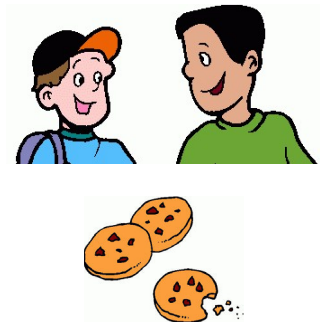
a. $8 + \square = 15$	b. $7 + \square = 14$	c. $6 + \square = 13$
d. $13 - \square = 5$	e. $14 - \square = 8$	f. $15 - \square = 9$
g. $11 - 6 = \square$	h. $12 - 7 = \square$	i. $12 - 4 = \square$

5. Find the missing steps.



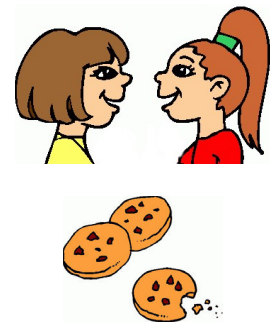
6. a. You have an *odd* number of cookies and so does your friend. You put your cookies together and share them. Can you share them evenly or not?

Cookies you have	Cookies your friend has	Together we have	even/odd	Can you share evenly?
3	5			
5	9			
9	3			
9	7			



b. You have an *odd* number of cookies and your friend has an *even* number of cookies. You put your cookies together and share them. Can you share them evenly or not?

Cookies you have	Cookies your friend has	Together we have	even/odd	Can you share evenly?
5	6			
7	8			
9	4			
1	12			



7. Solve the puzzle. What happened to the teddy bear in the desert?

$5 + 9$ $7 + 8$ $13 - 8$ $2 + 9$ $10 + 5$ $9 + 7$ $4 + 7$ $9 + 6$



$7 + 7$ $13 - 6$ $19 - 4$ $11 + 5$ $13 - 7$ $3 + 13$ $11 - 5$ $13 - 4$ $6 + 9$

Key:

A	E	I	O	G	H	T	W	N
9	6	14	11	5	16	15	8	7

8. Solve the word problems.

a. Jack has 13 tennis balls and Jane has 20.
How many more does Jane have than Jack?

b. Emma has three more flowers than Sofia. If Emma has 14 flowers, how many does Sofia have?

c. In a chess game, Jacob has 2 more pawns than Anna.
If Anna has five pawns, how many does Jacob have?

d. You have \$20, and you want to buy a Lego set that costs \$28.
How many dollars do you still need to save?

Later, a neighbor pays you \$2 for helping rake leaves.
How much more money do you need after that?

e. In a board game, you need to move 18 more squares to get to the end of the game. You roll 6 and 5 on two dice and move that many squares.
Now how many more squares are there to the end?

What kind of numbers on the two dice would get you to the end?

5. Write the numbers so that ones and tens are in their own columns. Add.

a. $44 + 37$

b. $9 + 26$

c. $26 + 8 + 47$

d. $25 + 57 + 38$

+	
<hr/>	

+	
<hr/>	

+	
<hr/>	

+	
<hr/>	

6. Chris made six cards for his party. He put the cards at the plate of each guest.
It took Chris 10 minutes to make one card.

a. How long did it take Chris to make all 6 cards?

b. If he started making the cards at noon, at what time did he finish his project?

7. Fill in the missing numbers.

a. $24 + 8 =$ <input type="text"/>	b. $16 - 7 =$ <input type="text"/>	c. $17 - 9 =$ <input type="text"/>
d. <input type="text"/> $- 6 = 5$	e. <input type="text"/> $- 20 = 7$	f. <input type="text"/> $- 5 = 31$

8. You bought three stools for \$18 each and some towels for \$25.
Find the total cost.

+	
<hr/>	

Geometry and Fractions Review

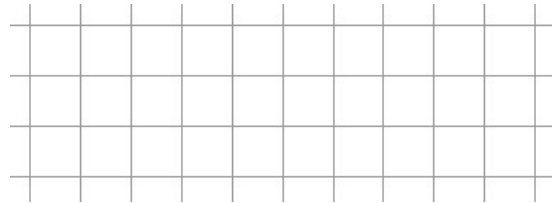
1. Connect the dots. Use a ruler!
What shape do you get?



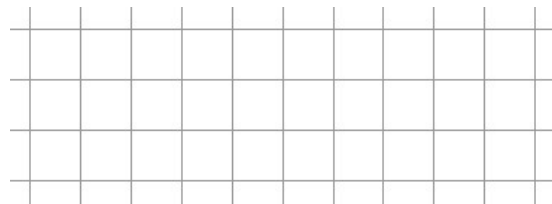
2. Choose one corner of your shape.
Now draw a line (with a ruler)
from that corner to some other
corner so that you will divide the
shape into a triangle and a pentagon.



3. Draw in the grid a square that
has 4 little squares inside.

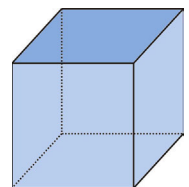


4. Draw in the grid a rectangle that
has 18 little squares inside.



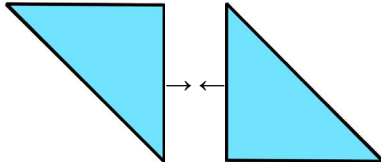
5. What is this shape called? _____

How many faces does it have? _____

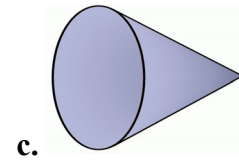
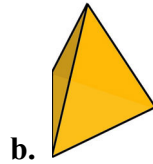
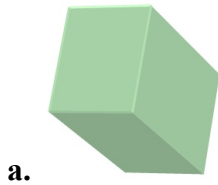


What shape are the faces? _____

6. Sarah put together these two triangles. What new shape did she get?



7. Label the pictures as *box*, *cylinder*, *pyramid*, or *cone*.



8. Color the whole shape. Then write 1 whole as a fraction. Lastly, read what you wrote with numbers.

<p>a. $1 = \frac{\text{[yellow box]}}{\text{[yellow box]}}$</p>	<p>b. $1 = \frac{\text{[yellow box]}}{\text{[yellow box]}}$</p>
---	---

9. Divide the shapes into two, three, or four equal parts so that you can color the fraction.

<p>a. $\frac{2}{4}$</p>	<p>b. $\frac{1}{3}$</p>	<p>c. $\frac{2}{3}$</p>	<p>d. $\frac{2}{2}$</p>
---	---	---	---

10. Color. Then compare and write $<$, $>$ or $=$. Which is more “pie” to eat?

<p>a. $\frac{1}{3}$ $\frac{1}{2}$</p>	<p>b. $\frac{2}{3}$ $\frac{3}{4}$</p>	<p>c. 1 whole $\frac{3}{4}$</p>
---	---	--

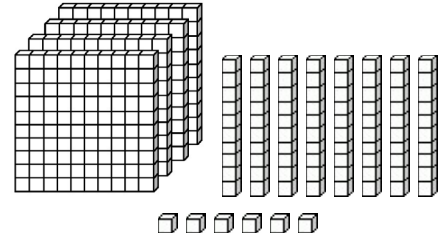
Three-Digit Numbers Review

1. a. Write the number shown by the image: _____

b. Write the number that is 1 more than the number in the image: _____

c. Write the number that is 10 more than the number in the image: _____

d. Write the number that is 100 more than the number in the image: _____



2. Write the numbers that come before and after the given number.

a. _____, 179, _____

b. _____, 201, _____

c. _____, 800, _____

d. _____, 917, _____

3. Write with numbers.

a. $700 + 9 =$ _____

b. $70 + 600 + 4 =$ _____

c. $80 + 500 =$ _____

d. $8 + 500 + 50 =$ _____

4. Count by fives: _____, _____, _____, _____, 715, 720.

5. Write the numbers that are 10 less and 10 more than the given number.

a. _____, 292, _____

b. _____, 545, _____

6. Count by 20s, and fill in the grid.

200	220	240		
300				

7. Compare. Write $<$ or $>$ in the box.

a. 238 <input type="text"/> 265	b. 391 <input type="text"/> 193	c. 405 <input type="text"/> 450	d. 981 <input type="text"/> 819
e. $8 + 600$ <input type="text"/> $60 + 800$		f. $30 + 300 + 5$ <input type="text"/> $90 + 8 + 100$	

8. Arrange the three numbers in order, from the smallest to the biggest.

a. 109, 901, 199	b. 717, 175, 177
------------------	------------------

9. Add in columns.

a. <input type="text"/> H <input type="text"/> H <input type="text"/> H ... +	b. <input type="text"/> H <input type="text"/> H .. + <input type="text"/> H <input type="text"/> H <input type="text"/> H																														
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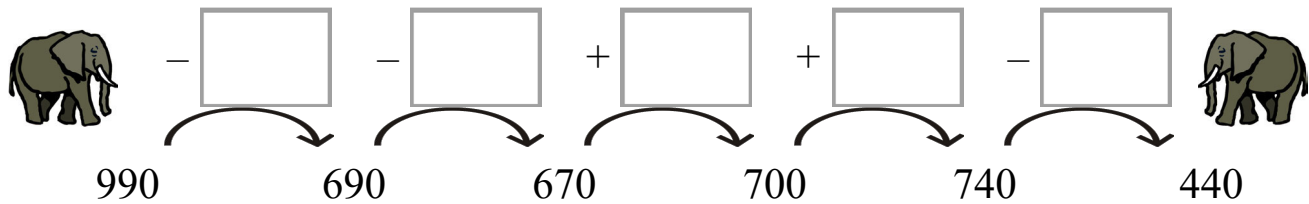
10. Add and subtract whole hundreds.

a.	b.	c.
$720 + 200 =$ _____	$508 + 400 =$ _____	$219 + 500 =$ _____
$780 - 300 =$ _____	$670 - 400 =$ _____	$954 - 900 =$ _____

11. Add and subtract whole tens. You can underline the tens to help you.

a.	b.	c.
$\underline{580} + \underline{20} =$ _____	$969 - 40 =$ _____	$572 - 30 =$ _____
$620 + 70 =$ _____	$433 + 20 =$ _____	$884 - 70 =$ _____

12. Fill in.



13. Solve the word problems.

a. Grandpa had 250 sheep. During 1 week, wolves killed 10 of them, but 20 new little lambs were born.
How many sheep were in the flock at the end of the week?

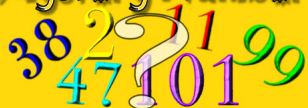
b. Jake has 170 fish in his aquariums. Of all the fish, 30 are rainbow fish, and the rest are goldfish. How many are goldfish?

c. Jake bought 50 more goldfish and 70 more rainbow fish.
How many goldfish does he have now?

And how many rainbow fish?

d. Sandra traveled 400 km in an airplane, and then 30 km in a car, to go visit her mother. Then she returned the same way.
How many kilometers did Sandra travel?

Mystery Number

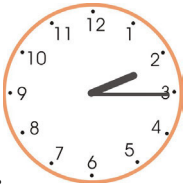
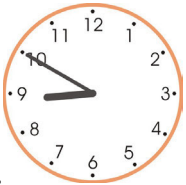
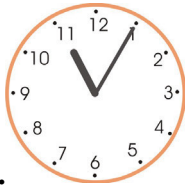
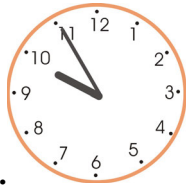


a. If you count by 10s from this number 3 times, you will get to 62.

b. It is less than 10. If you double it, you get a number that is more than 10, but it will not be 14, 18, or 12.

Mixed Review 8

1. Write the time that the clock shows, and the time 5 minutes later.

	 <p>a.</p> <p>_____ : _____</p>	 <p>b.</p> <p>_____ : _____</p>	 <p>c.</p> <p>_____ : _____</p>	 <p>d.</p> <p>_____ : _____</p>
5 min. later →	_____ : _____	_____ : _____	_____ : _____	_____ : _____

2. Find the missing numbers.

a. $16 - \square = 9$	b. $11 - \square = 3$	c. $12 - \square = 9$
d. $\square - 8 = 6$	e. $\square - 7 = 5$	f. $\square - 9 = 9$

3. Add. Compare the problems.

a. $7 + 6 =$ _____	b. $8 + 9 =$ _____	c. $5 + 8 =$ _____
$17 + 6 =$ _____	$68 + 9 =$ _____	$35 + 8 =$ _____

4. Mom divided 16 plums evenly between Jane and John. John ate 3 of his.

Jane ate 2 of hers.

How many does John have left?

How many does Jane have left?

5. Write each number as a double of some other number.

a. $12 = \underline{\quad} + \underline{\quad}$	b. $18 = \underline{\quad} + \underline{\quad}$	c. $100 = \underline{\quad} + \underline{\quad}$
d. $40 = \underline{\quad} + \underline{\quad}$	e. $14 = \underline{\quad} + \underline{\quad}$	f. $600 = \underline{\quad} + \underline{\quad}$

6. Add.

a.

$$\begin{array}{r} 75 \\ 26 \\ +24 \\ \hline \end{array}$$

b.

$$\begin{array}{r} 18 \\ 27 \\ +59 \\ \hline \end{array}$$

c.

$$\begin{array}{r} 24 \\ 55 \\ +25 \\ \hline \end{array}$$

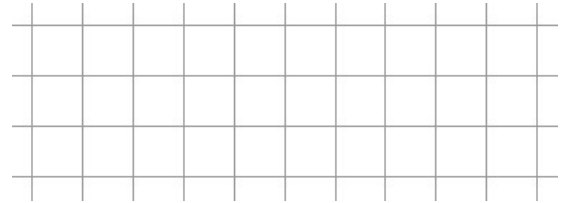
d.

$$\begin{array}{r} 37 \\ 28 \\ 37 \\ +23 \\ \hline \end{array}$$

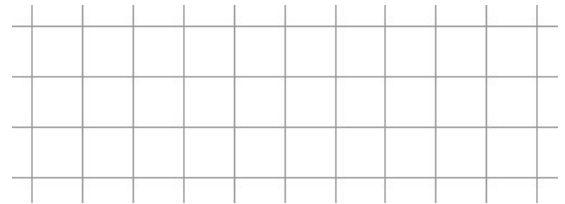
e.

$$\begin{array}{r} 51 \\ 29 \\ 9 \\ +15 \\ \hline \end{array}$$



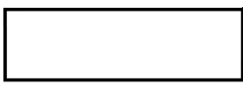
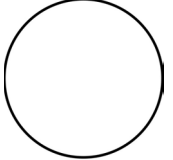
7. Draw a square in the grid that has 9 little squares inside.



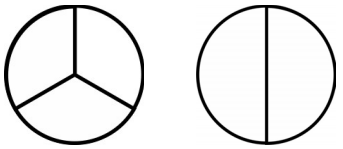
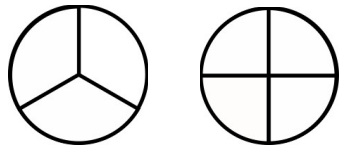
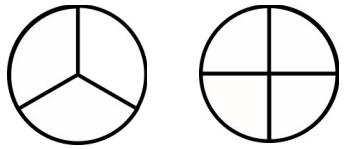
8. Draw a rectangle in the grid that has 12 little squares inside.
Can you draw another one with a different shape?



9. Divide the shapes into two, three, or four equal parts so that you can color the fraction.

<p>a. </p> <p>$\frac{1}{4}$</p>	<p>b. </p> <p>$\frac{2}{3}$</p>	<p>c. </p> <p>$\frac{3}{3}$</p>	<p>d. </p> <p>$\frac{1}{2}$</p>
---	---	--	---

10. Color. Then compare and write $<$, $>$, or $=$. Which is more “pie” to eat?

<p>a. </p> <p>$\frac{3}{3}$ $\frac{2}{2}$</p>	<p>b. </p> <p>$\frac{1}{3}$ $\frac{1}{4}$</p>	<p>c. </p> <p>$\frac{2}{3}$ $\frac{3}{4}$</p>
---	---	---

Measuring Test

1. Cross out the sentences that don't make sense.

- a. An 11-year old boy weighs 12 pounds. b. An elephant is 3 m tall.
 c. My science book is 25 m wide. d. The suitcase weighs 400 kg.

2. Measure these pencils two times, to the nearest half-inch, and to the nearest centimeter.



Pencil #1		in.		cm
Pencil #2		in.		cm

3. a. Draw a line that is
4 1/2 inches long.

b. Draw a line that is
9 cm long.

4. Arrange these measuring units from the shortest to the longest.

kilometer inch centimeter foot

5. Andy measured how long a piece of rope is. It was 10 feet long. Then he measured the same rope in meters. Which measurement did Andy get? **10 m** **3 m** **30 m**

6. Choose a unit to measure these: centimeters (cm), meters (m), or kilometers (km).

Distance	Unit
from Florida to California	
around your head	

Distance	Unit
length of a garden	
height of a room	

7. The teacher needs to arrange this task beforehand, and check students' results.

Your teacher gives you an item. Find out how heavy it is. _____

Mixed Review 17

1. Color in the chart all the even numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

2. a. Today is January 5. I am going away for three weeks and two days. What day will I return?
(See the calendar on the right.)

January						
Su	Mo	Tu	We	Th	Fr	Sa
		1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25	26
27	28	29	30	31		

- b. I went to the gym every Wednesday in January.
What were the dates I went to the gym?

3. Aunt Cindy gave Aiden and Samantha \$30.
The children shared the money equally.
Samantha already had \$5 in her piggy bank.
How much money does Samantha have now?

4. Subtract.

a.
$$\begin{array}{r} 975 \\ - 246 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 629 \\ - 189 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 514 \\ - 323 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 650 \\ - 126 \\ \hline \end{array}$$

5. Find the missing numbers.

a. $900 + \square = 914$

b. $620 + \square = 680$

c. $600 - \square = 570$

d. $\square - 20 = 40$

e. $\square - 70 = 70$

f. $572 - \square = 512$

6. Write the amounts using the dollar symbol and a decimal point.

<p>a.</p>  <p style="text-align: center;">\$ _____</p>	<p>b.</p>  <p style="text-align: center;">\$ _____</p>	<p>c.</p>  <p style="text-align: center;">\$ _____</p>
--	--	---

7. Fay bought apples for \$1.48 and gave the clerk \$5.00. What was her change?

8. What is the total if you have six dimes, three nickels and a quarter?

9. Weigh yourself. I weigh _____. Now weigh yourself holding as many books as you can hold. I weigh _____ with the books.

How much do the books weigh? _____

10. Solve.

<p>a. Mia has saved \$28. She wants to buy a sewing kit for \$45. After she earns \$13, can she buy it?</p> <div style="text-align: center; margin-top: 20px;"> <table style="border-collapse: collapse; margin: auto;"> <tr> <td style="border: none; padding-right: 10px;">+</td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> </div>	+																					<p>b. Find the cost of buying three rakes for \$17 each.</p> <div style="text-align: center; margin-top: 20px;"> <table style="border-collapse: collapse; margin: auto;"> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> </div>																												<p>c. One sack of potatoes weighs 22 kg. How much do four sacks weigh?</p> <div style="text-align: center; margin-top: 20px;"> <table style="border-collapse: collapse; margin: auto;"> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> <tr> <td style="border: none; padding-right: 10px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> <td style="border: 1px solid black; width: 40px; height: 20px;"></td> </tr> </table> </div>																											
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Grade 2 End-of-Year Test

Instructions to the student:

Answer each question in the space provided.

Instructions to the teacher:

My suggestion for grading is below. The total is 134 points. A score of 107 points is 80%.

Question	Max. points	Student score
Basic Addition and Subtraction Facts		
1	16 points	
2	16 points	
3	6 points	
<i>subtotal</i>		/ 38
Mental Addition and Subtraction with Two-Digit Numbers and Word Problems		
4	1 point	
5	2 points	
6	3 points	
7	1 point	
8	3 points	
9	3 points	
10	6 points	
<i>subtotal</i>		/ 19
Three-Digit Numbers		
11	2 points	
12	2 points	
13	2 points	
14	6 points	
15	4 points	
<i>subtotal</i>		/ 16

Question	Max. points	Student score
Regrouping in Addition and Subtraction, Including Word Problems		
16	3 points	
17	4 points	
18	2 points	
19	2 points	
20	2 points	
21	3 points	
<i>subtotal</i>		/ 16
Clock		
22	6 points	
23	5 points	
<i>subtotal</i>		/ 11
Money		
24	2 points	
25	2 points	
26	2 points	
<i>subtotal</i>		/ 6
Geometry and Measuring		
27	2 points	
28	4 points	
29	1 point	
30	4 points	
<i>subtotal</i>		/ 11

Question	Max. points	Student score
Fractions		
31	4 points	
32	6 points	
<i>subtotal</i>		/ 10

Question	Max. points	Student score
Concept of Multiplication		
33	2 points	
34	2 points	
35	3 points	
<i>subtotal</i>		/ 7
TOTAL		/ 134

End-of-Year Test - Grade 2

Basic Addition and Subtraction Facts

In problems 1 and 2, your teacher will read you the addition and subtraction questions. Try to answer them as quickly as possible. In each question, he/she will only wait a little while for you to answer, and if you don't say anything, your teacher will move on to the next problem. So just try your best to answer the questions as quickly as you can.

1. Add.

a.	b.	c.	d.
$6 + 7 = \underline{\quad}$	$7 + 4 = \underline{\quad}$	$8 + 8 = \underline{\quad}$	$9 + 5 = \underline{\quad}$
$9 + 9 = \underline{\quad}$	$5 + 8 = \underline{\quad}$	$6 + 6 = \underline{\quad}$	$7 + 7 = \underline{\quad}$
$5 + 6 = \underline{\quad}$	$3 + 9 = \underline{\quad}$	$2 + 9 = \underline{\quad}$	$8 + 6 = \underline{\quad}$
$8 + 7 = \underline{\quad}$	$5 + 7 = \underline{\quad}$	$4 + 8 = \underline{\quad}$	$8 + 9 = \underline{\quad}$

2. Subtract.

a.	b.	c.	d.
$12 - 3 = \underline{\quad}$	$11 - 3 = \underline{\quad}$	$14 - 5 = \underline{\quad}$	$13 - 4 = \underline{\quad}$
$15 - 7 = \underline{\quad}$	$12 - 8 = \underline{\quad}$	$12 - 4 = \underline{\quad}$	$15 - 6 = \underline{\quad}$
$13 - 6 = \underline{\quad}$	$14 - 6 = \underline{\quad}$	$18 - 9 = \underline{\quad}$	$12 - 6 = \underline{\quad}$
$11 - 7 = \underline{\quad}$	$16 - 8 = \underline{\quad}$	$16 - 7 = \underline{\quad}$	$14 - 7 = \underline{\quad}$

3. Fill in the missing numbers. The four problems form a fact family.

a. $2 + \square = 11$	b. $\underline{\quad} + \underline{\quad} = 17$	c. $\underline{\quad} + \underline{\quad} = \underline{\quad}$
$\square + 2 = 11$	$\underline{\quad} + \underline{\quad} = 17$	$\underline{\quad} + \underline{\quad} = \underline{\quad}$
$11 - 2 = \square$	$17 - 8 = \underline{\quad}$	$12 - \underline{\quad} = 5$
$11 - \square = 2$	$17 - \underline{\quad} = \underline{\quad}$	$\underline{\quad} - \underline{\quad} = \underline{\quad}$

Mental Addition and Subtraction with Two-Digit Numbers and Word Problems

4. What is double 35?
5. Mary picked 5 apples and Bill picked 9. The children shared all of their apples evenly. How many did each child get?
6. List here the even numbers from 10 to 20.
7. Find the difference of 75 and 90.
8. Ed had saved \$16. Then grandma gave him \$10. Now how much more does he need in order to buy a toolset for \$32?

9. Find the missing numbers.

a. $82 + \underline{\quad} = 90$

b. $13 + \underline{\quad} = 21$

c. $90 - \underline{\quad} = 83$

10. Calculate mentally.

a. $59 + 8 = \underline{\quad}$

b. $52 + 40 = \underline{\quad}$

c. $76 - 50 = \underline{\quad}$

$62 + 8 = \underline{\quad}$

$45 + 9 = \underline{\quad}$

$54 - 23 = \underline{\quad}$

Three-Digit Numbers

11. Write with numbers.

a. 6 tens 2 hundreds 7 ones = $\underline{\quad}$

b. 8 ones 9 hundreds = $\underline{\quad}$

12. Skip-count by tens.

568, 578, $\underline{\quad}$, $\underline{\quad}$, $\underline{\quad}$, $\underline{\quad}$, $\underline{\quad}$

13. Write the numbers in order from the smallest to the greatest.

a. 417, 714, 447

b. 89, 998, 809

14. Calculate mentally.

a. $560 + 40 =$ _____

b. $520 - 20 =$ _____

c. $362 - 30 =$ _____

$560 + 400 =$ _____

$520 - 200 =$ _____

$362 - 300 =$ _____

15. Compare the expressions and write $<$, $>$, or $=$.

a. $100 - 5 - 3$ $98 - 6$

b. $40 + 8 + 200$ $20 + 800 + 4$

c. $50 + 120$ 125

d. $\frac{1}{2}$ of 800 $399 + 5$

Regrouping in Addition and Subtraction, including Word Problems

16. Add.

a.
$$\begin{array}{r} 35 \\ 36 \\ + 12 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 224 \\ + 458 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 438 \\ 17 \\ + 293 \\ \hline \end{array}$$

17. Subtract. Check by adding the result and what was subtracted.

a.
$$\begin{array}{r} 61 \\ - 37 \\ \hline \end{array} \quad + \quad \underline{\hspace{2cm}}$$

b.
$$\begin{array}{r} 970 \\ - 248 \\ \hline \end{array} \quad + \quad \underline{\hspace{2cm}}$$

18. Jennifer bought two vacuum cleaners for \$152 each.
What was the total cost?

<hr/>		

19. A box contains 450 disks in all. Of them,
126 are music CDs and the rest are DVDs.
How many DVDs are in the box?

<hr/>		

20. The distance from Mark's home to
his grandma's house is 218 miles.
How many miles long is a round trip?

<hr/>		

21. Every day Janet jogs around a rectangular-shaped
jogging track. One side is 150 yards and
another side is 300 yards.


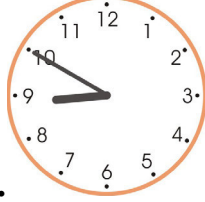
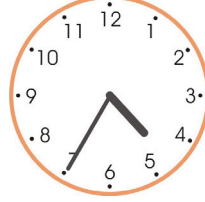
a. Mark the distances in the picture.

b. Calculate what distance Janet goes
when she jogs around it once.



Clock

22. Write the time with *hours:minutes*, and using “past” or “till”.



 <p>a.</p> <p>_____ : _____</p> <p>_____ past _____</p>	 <p>b.</p> <p>_____ : _____</p> <p>_____</p>	 <p>c.</p> <p>_____ : _____</p> <p>_____</p>
---	--	--

23. How much time passes? Fill in the table.

from	3:00	2:00	1 AM	11 AM	8 PM
to	3:05	2:30	8 AM	1 PM	midnight
amount of time					

Money

24. How much money? Write the amount.

 <p>a. \$ _____</p>	 <p>b. \$ _____</p>
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25. Find the change, if you buy a meal for \$3.35 and you pay with \$4.

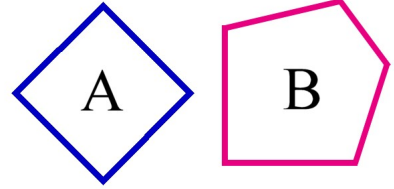
26. Bill bought an eraser that cost 85¢. He paid with \$1. What was his change?

Geometry and Measuring

27. Identify the shapes.

Shape A: _____

Shape B: _____



28. a. Join the dots in order (A-B-C-D) with straight lines. Use a ruler.



b. What shape is formed?



c. Measure the sides of the shape to the nearest half-inch.

Side AB: about _____

Side BC: about _____

Side CD: about _____

Side DA: about _____

29. Measure this line to the nearest centimeter.

 about _____ cm

30. Which measuring unit or units could you use to find these amounts?


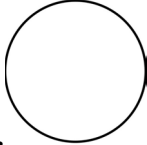
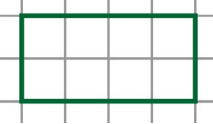
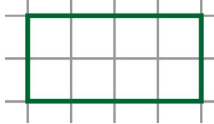
Centimeter (cm), inch (in), meter (m), foot (ft), mile (mi), or kilometer (km)?

Sometimes two different units are possible. If so, write both.

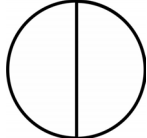

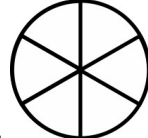
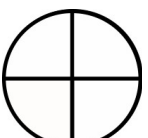

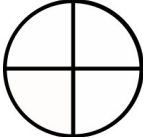
Distance	Unit(s)
how long my pencil is	
the distance from London to New York	
the height of a wall	
the distance it is to the neighbor's house	

Fractions

31. Divide these shapes. Then color as you are asked to.

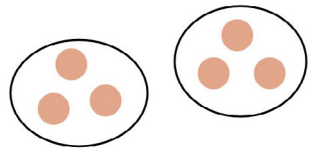
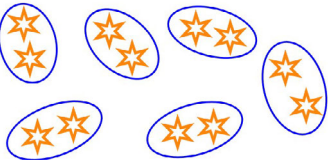
<p>a. </p> <p>Divide this into thirds. Color $\frac{2}{3}$.</p>	<p>b. </p> <p>Divide this into halves. Color $\frac{1}{2}$.</p>	<p>c. </p> <p>Divide this into halves. Color $\frac{2}{2}$.</p>	<p>d. </p> <p>Divide this into fourths. Color $\frac{3}{4}$.</p>
---	---	--	--

32. Color. Then compare and write $<$, $>$, or $=$ between the fractions.

<p>a.  </p> <p>$\frac{1}{2}$ $\frac{2}{5}$</p>	<p>b.  </p> <p>$\frac{4}{6}$ $\frac{3}{4}$</p>	<p>c.  </p> <p>$\frac{2}{3}$ $\frac{2}{4}$</p>
---	---	---

Concept of Multiplication

33. Write a multiplication sentence for each picture.

<p>a. </p> <p>a. _____ \times _____ = _____</p>	<p>b. </p> <p>b. _____ \times _____ = _____</p>
---	--

34. Write a multiplication for each addition, and solve.

<p>a. $5 + 5 + 5$</p> <p>_____ \times _____ = _____</p>	<p>b. $4 + 4 + 4 + 4 + 4$</p> <p>_____ \times _____ = _____</p>
---	---

35. Solve.

<p>a. $2 \times 5 =$ _____</p>	<p>b. $3 \times 3 =$ _____</p>	<p>c. $3 \times 10 =$ _____</p>
---	---	--

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