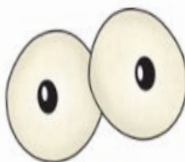
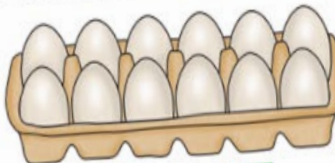




Mental Math Strategies - Addition

Doubles

When you add the same number twice, it is called a doubles fact. Doubles are all around us, look at these examples.

    	$1 + 1 = 2$ $2 + 2 = 4$ $3 + 3 = 6$ $4 + 4 = 8$ $5 + 5 = 10$	    	$6 + 6 = 12$ $7 + 7 = 14$ $8 + 8 = 16$ $9 + 9 = 18$ $10 + 10 = 20$
--	--	--	--

©2016 B. B. B.

2nd Grade

Digital Lesson & Printable Recording Sheet

Counting On

Use counting on when one of the addends is 1, 2, or 3.

$$7 + 2 = \square$$

THINK... I know it's a count on fact because it is adding on 1, 2, or 3



SO... I put the largest number in my head and count on from it.

7

$$2 + 7 = \square$$

9

8

INCHES 1 2 3 4 5 6

CENTIMETERS 2 3

20 21 22 23 24 25 26 27

$9 + 9 = 18$

$2 + 3 = 5$

$5 + 5 = 10$

Explore

$6 + 7 = 13$

$3 + 3 = 6$

$4 + 5 = 9$

$7 + 7 = 14$

$3 + 4 = 7$

Sort the number sentences into doubles and doubles +1.

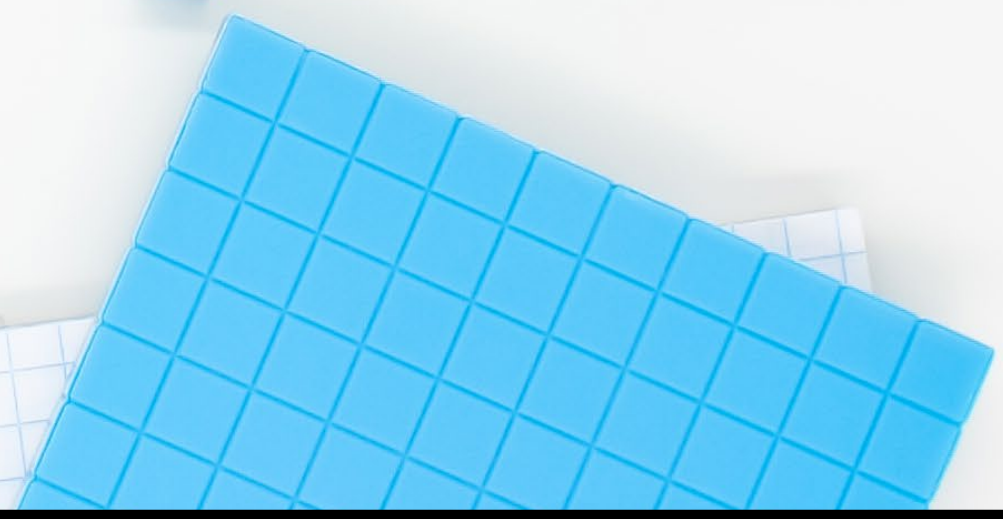
Doubles

Doubles +1

CENTIMETERS 2 3

20 21 22 23 24 25 26 27

120 130 140 150 160 170 180
0 INCHES
10 20 30 40 50 60



Tens Rainbow



0 1 2 3 4 5

$$0 + 10 = 10$$

$$1 + 9 = 10$$

$$2 + 8 = 10$$

$$3 + 7 = 10$$

$$4 + 6 = 10$$

$$5 + 5 = 10$$

$$6 + 4 = 10$$

$$7 + 3 = 10$$

$$8 + 2 = 10$$

$$9 + 1 = 10$$

$$10 + 0 = 10$$

Explore

Match the numbers that make 10 to make the rainbows.



Adding 10 and Adding 9

$$5 + 10 = 15$$

Just add a 1 to the ten's place of the other number.

$$5 + 9 = 14$$

The number in the one's place doesn't change.

Find the answer to $5 + 10$ and then take one away because 9 is one less than 10.

Let's try...

$$3 + 10 = \square$$

$$7 + 10 = \square$$

$$4 + 9 = \square$$

$$6 + 9 = \square$$

CENTIMETERS 2 3

20 21 22 23 24 25 26 27

120 130 140 150 160 170 180
INCHES 10 20 30 40 50

Name: _____ Date: _____

Mental Math – Addition Lesson Recording Sheet: Day 1

Counting On

Use counting on when one of the addends is a 1, 2, or 3.

$$7 + 2 = \square$$

THINK... I know it's a
count on fact because
it is adding on 1, 2, or 3



$$2 + 7 = \square$$

SO... I put the largest
number in my head and
count on from it.

7, ____, ____

Explore: Use counting on to solve the problems with mental math. Remember to start with the largest number.

Counting on by 1

Counting on by 2

Counting on by 3

$$7 + 1 = \square$$

$$6 + 2 = \square$$

$$4 + 3 = \square$$

$$4 + 1 = \square$$

$$12 + 2 = \square$$

$$3 + 17 = \square$$

$$10 + 1 = \square$$

$$8 + 2 = \square$$

$$6 + 3 = \square$$

©2011 Edmentum

Name: _____ Date: _____

Mental Math – Addition Lesson Recording Sheet: Day 1

Explore: Use counting on to solve the problems with mental math. Remember to start with the largest number. Write if the problem is counting on by 1, 2, or 3.

$$9 + 2 = \square$$

I counted on by ____

$$3 + 15 = \square$$

I counted on by ____

$$1 + 5 = \square$$

I counted on by ____

$$1 + 16 = \square$$

I counted on by ____

$$2 + 8 = \square$$

I counted on by ____

$$12 + 2 = \square$$

I counted on by ____

$$5 + 2 = \square$$

I counted on by ____

$$4 + 1 = \square$$

I counted on by ____

$$11 + 3 = \square$$

I counted on by ____

Collaborate & Share: Work with a partner or your group to write your own counting on problem. Then, write an explanation to the class of how you can use the counting on strategy to solve the problem using mental math.

To use counting on, first I...

$$\square + \square = \square$$



©John Becker