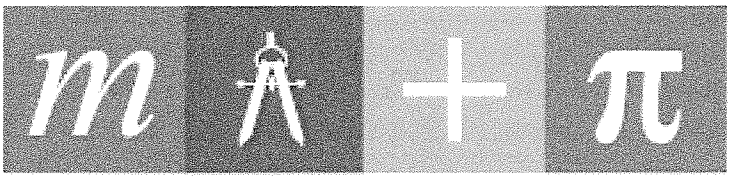
SUMMER



ASSIGNMENTS

Dear incoming 4th grade families,

Students will need to have mastered the multiplication facts up to 12x12 in order to be successful in 4th grade math and beyond. This packet has timed multiplication sheets to help keep those facts fresh in your child's mind.

If they are still struggling with their facts there are many online resources and apps for tablets that can help. Games such as Yahtzee, Math War, use multiplication for scorekeeping are fun practice as well. They will also have PRODIGY still available to them from previous year. Math Aid is also a good website to use for worksheets to work on concepts.

This packet includes practice pages that should keep 3RD grade math concepts mastered and ready for scaffolding next year. Please have your child do a little each day and turn it in on the first day of school.

God Bless your summer.

Two Minute Multiplication Timing #2 (Do this weekly to see your progress)

4	6	7	5	8	9	4	5	0	9
x9	x2	x5	x2	x2	x8	x3	x1	x4	x1
0	8	5	8	7	4	6	4	0	8
x7	x7	x6	x7	x3	x4	x9	x2	x8	x5
6	9	7	4	6	8	4	2	0	3
x4	x3	x7	x1	x8	x9	x7	x9	x6	x1
9	4	2	5	6	3	8	7	9	7
x5	x8	x7	x4	x7	x3	x3	x6	x9	x1
4	5	8	0	8	6	3	2	2	9
x5	x8	x1	x9	x8	x6	x6	x4	x8	x7
8	7	6	0	3	8	9	3	6	5
x6	x2	x5	x5	x4	x4	x6	x8	x1	x9
7	3	2	5	9	0	3	4	5	0
x8	x7	x5	x7	x2	x5	x9	x6	x5	x3
9	2	7	6	3	2	7	2	5	5
x4	x2	x4	x3	x5	x1	x9	x6	x3	x9

Goal _____ Number of problems correct_____

Two Minute Multiplication Timing #3 (Do this weekly to see your progress)

7	5	6	9	8	4	4	5	0	9
x5	x2	x2	x8	x2	x9	x3	x1	x4	x1
5	8	8	4	7	0	6	4	0	8
x6	x7	x7	x4	x3	x7	x9	x2	x8	x5
2	5	4	3	6	9	8	7	9	7
x7	x4	x8	x3	x7	x5	x3	x6	x9	x1
8	0	5	6	8	4	3	2	2	9
x1	x9	x8	x6	x8	x5	x6	x4	x8	x7
7	4	9	8	6	6	4	2	0	3
x7	x1	x3	x9	x8	x4	x7	x9	x6	x1
6	0	7	8	3	8	9	3	6	5
x5	x5	x2	x4	x4	x6	x6	x8	x1	x9
2	5	3	0	9	7	3	4	5	0
x5	x7	x7	x5	x2	x8	x9	x6	x5	x3
7	6	2	2	3	9	7	2	5	5
x4	x3	x2	x1	x5	x4	x9	x6	x3	x9

Goal _____ Number of problems correct_____

Two Minute Multiplication Timing #4 (Do this weekly to see your progress)

6	3	8	7	9	4	2	5	9	7
x 7	x 3	x 3	x 6	x 5	x 8	x 7	x 4	x 9	x 1
8	6	3	2	4	5	8	0	2	9
x 8	x 6	x 6	x 4	x 5	x 8	x 1	x 9	x 8	x 7
3	8	9	3	8	7	6	0	6	5
x 4	x 4	x 6	x 8	x 6	x 2	x 5	x 5	x 1	x 9
9	0	3	4	7	3	2	5	5	0
x 2	x 5	x 9	x 6	x 8	x 7	x 5	x 7	x 5	x 3
8	9	4	5	4	6	7	5	0	9
x 2	x 8	x 3	x 1	x 9	x 2	x 5	x 2	x 4	x 1
7	4	6	4	0	8	5	8	0	8
x 3	x 4	x 9	x 2	x 7	x 7	x 6	x 7	x 8	x 5
6	8	4	2	6	9	7	4	0	3
x 8	x 9	x 7	x 9	x 4	x 3	x 7	x 1	x 6	x 1
3	2	7	2	9	2	7	6	5	5
x 5	x 1	x 9	x 6	x 4	x 2	x 4	x 3	x 3	x 9

Goal _____ Number of problems correct_____

Two Minute Multiplication Timing #5 (Do this weekly to see your progress)

2	5	4	5	0	3	0	9	7	3
x 5	x 7	x 6	x 5	x 3	x 7	x 5	x 2	x 8	x 9
7	5	5	0	9	6	9	8	4	4
x 5	x 2	x 1	x 4	x 1	x 2	x 8	x 2	x 9	x 3
5	8	4	0	8	8	4	7	0	6
x 6	x 7	x 2	x 8	x 5	x 7	x 4	x 3	x 7	x 9
6	0	3	6	5	7	8	3	8	9
x 5	x 5	x 8	x 1	x 9	x 2	x 4	x 4	x 6	x 6
2	5	7	9	7	4	3	6	9	8
x 7	x 4	x 6	x 9	x 1	x 8	x 3	x 7	x 5	x 3
8	0	2	2	9	5	6	8	4	3
x 1	x 9	x 4	x 8	x 7	x 8	x 6	x 8	x 5	x 6
7	4	2	0	3	9	8	6	6	4
x 7	x 1	x 9	x 6	x 1	x 3	x 9	x 8	x 4	x 7
7	6	2	5	5	2	2	3	9	7
x 4	x 3	x 6	x 3	x 9	x 2	x 1	x 5	x 4	x 9

Goal _____ Number of problems correct_____

Two Minute Multiplication Timing #6 (Do this weekly to see your progress)

9	7	6	7	9	4	2	3	8	5
x 9	x 1	x 7	x 6	x 5	x 8	x 7	x 3	x 3	x 4
2	9	8	2	4	5	8	6	3	0
x 8	x 7	x 8	x 4	x 5	x 8	x 1	x 6	x 6	x 9
6	5	3	3	8	7	6	8	9	0
x 1	x 9	x 4	x 8	x 6	x 2	x 5	x 4	x 6	x 5
5	0	9	4	7	3	2	0	3	5
x 5	x 3	x 2	x 6	x 8	x 7	x 5	x 5	x 9	x 7
0	9	8	5	4	6	7	9	4	5
x 4	x 1	x 2	x 1	x 9	x 2	x 5	x 8	x 3	x 2
0	8	7	4	0	8	5	4	6	8
x 8	x 5	x 3	x 2	x 7	x 7	x 6	x 4	x 9	x 7
0	3	6	2	6	9	7	8	4	4
x 6	x 1	x 8	x 9	x 4	x 3	x 7	x 9	x 7	x 1
5	5	3	2	9	2	7	2	7	6
x 3	x 9	x 5	x 6	x 4	x 2	x 4	x 1	x 9	x 3

Goal _____ Number of problems correct_____

Two Minute Multiplication Timing #9 (Do this weekly to see your progress)

5	4	5	0	2	3	0	9	7	3
x7	x6	x5	x3	x5	x7	x5	x2	x8	x9
5	5	0	9	7	6	9	8	4	4
x2	x1	x4	x1	x5	x2	x8	x2	x9	x3
0	2	2	9	8	5	6	8	4	3
x9	x4	x8	x7	x1	x8	x6	x8	x5	x6
4	2	0	3	7	9	8	6	6	4
x1	x9	x6	x1	x7	x3	x9	x8	x4	x7
8	4	0	8	5	8	4	7	0	6
x7	x2	x8	x5	x6	x7	x4	x3	x7	x9
5	7	9	7	2	4	3	6	9	8
x4	x6	x9	x1	x7	x8	x3	x7	x5	x3
0	3	6	5	6	7	8	3	8	9
x5	x8	x1	x9	x5	x2	x4	x4	x6	x6
6	2	5	5	7	2	2	3	9	7
x3	x6	x3	x9	x4	x2	x1	x5	x4	x9

Goal _____ Number of problems correct_____

Two Minute Timing # 1 (Do this weekly to see your progress)

6)42	5)10	5)35	7)56	2)4	3)6	2)6	4)24	4)8	2)10
2)18	2)14	9)54	1)7	8)16	5)5	4)16	2)16	6)30	2)8
5)25	4)36	3)9	9)27	4)2	5)45	8)72	9)1	9)36	9)63
6)18	9)45	6)5	8)4	9)72	6)54	1)8	3)27	9)18	6)36
8)24	1)9	4)12	7)21	8)4	5)15	8)8	6)1	2)2	1)3
9)9	3)21	8)64	3)15	3)12	7)49	1)4	3)24	9)81	3)18
5)30	7)14	1)6	6)12	8)48	5)40	8)32	7)63	5)20	7)28
4)28	6)48	8)40	7)35	8)56	7)42	4)20	4)32	6)24	2)16

Goal _____ Number of problems correct_____

Name _____ Date _____

Reteach 21

Compare Numbers

You can use a place-value chart to compare numbers.

hundreds	tens	ones
1	3	6
1	5	2

same

3 tens < 5 tens

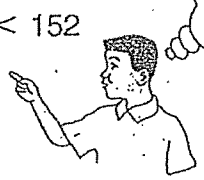
> means "is greater than"
< means "is less than"
≠ means "is not equal to"

Because 3 tens is less than 5 tens, **136 < 152.**

Here is one way to remember the symbols for comparing.

152 > 136

136 < 152



Compare. Write >, <, or = for each ◯.

1. 24 ◯ 27
2. 43 ◯ 83
3. 98 ◯ 98
4. 50 ◯ 15
5. 162 ◯ 157
6. 105 ◯ 102
7. 170 ◯ 178
8. 196 ◯ 214
9. 83 ◯ 113
10. 742 ◯ 724
11. 846 ◯ 846
12. 689 ◯ 1,689
13. 1,010 ◯ 1,001
14. 2,514 ◯ 3,120
15. 4,023 ◯ 3,965
16. 5,438 ◯ 9,312
17. 240 ◯ 204
18. 2,195 ◯ 2,195
19. 400 ◯ 4,000
20. 2,954 ◯ 2,945

Name _____ Date _____

Reteach 23

Round Two-Digit and Three-Digit Numbers

Round a number to the nearest ten.

127

Step 1. Find the tens place.

1<u>2</u>7

Step 2. Look at the digit to the right of the tens place.

12<u>7</u>

Step 3. If the ones digit is 5 or greater, round the ten to the next greater ten.

The ones digit is greater than 5, so change the tens digit by increasing it by 1: 2 + 1 = 3.

7 > 5; so round 127 to **130**.

Round a number to the nearest hundred.

127

Step 1. Find the hundreds place.

<u>1</u>27

Step 2. Look at the digit to the right of the hundreds place.

1<u>2</u>7

Step 3. If the tens digit is 5 or greater, round the hundred to the next greater hundred.

The tens digit is less than 5, so do not change the hundreds digit.

2 < 5; so round 127 to **100**.

Round each number to the nearest ten.

1. 134 _____
2. 42 _____
3. 381 _____
4. 509 _____
5. 75 _____
6. 96 _____
7. 735 _____
8. 485 _____
9. 613 _____
10. 258 _____

Round each number to the nearest hundred.

11. 278 _____
12. 514 _____
13. 452 _____
14. 805 _____
15. 382 _____

Name _____ Date _____

Reteach 3.1

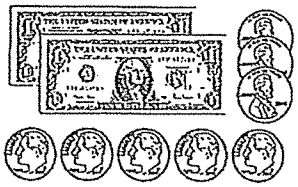
Value of Money

Dollars, dimes, and pennies each have different values. Their values can be shown using places.

1 dollar = 100 cents

1 dime = 10 cents

1 penny = 1 cent



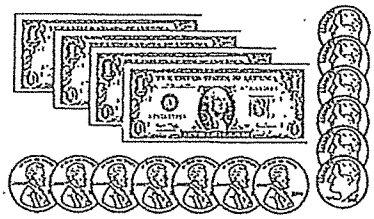
two dollars and fifty-three cents

Dollars	Dimes	Pennies
2	5	3

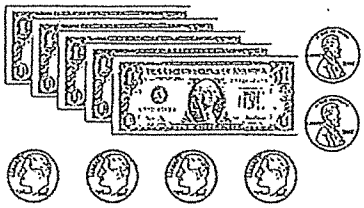
$2.53

dollar sign | decimal point

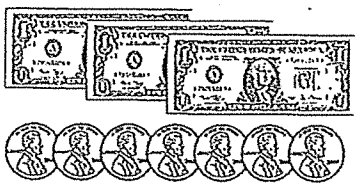
Write each amount using a dollar sign and a decimal point.

1. 

_____

2. 

_____

3. 

_____

4. 

_____

5. two dollars and forty-eight cents

_____

6. nine dollars and five cents

_____

7. seven dollars and thirty cents

_____

8. six dollars and twelve cents

_____

Name _____ Date _____

Reteach 4.9

Problem-Solving Decision: Estimate or Exact Answer

Before you solve any problem, you must decide if you need to find an exact answer or an estimate. Looking for certain words in the problem can help you decide.

Problem An ostrich weighs 325 pounds. An emu weighs 88 pounds. About how much do the two birds weigh altogether?

Think: The word "about" in the question tells you that you can estimate to solve the problem.

$$\begin{array}{c} 325 + 88 \\ \downarrow \quad \downarrow \\ 300 + 90 = 390 \end{array}$$

Solution: The ostrich and an emu weigh about 390 pounds altogether.

Problem An emu is 66 inches tall. An ostrich is 24 inches taller than the emu. How tall is the ostrich?

Think: The question asks "how tall," not "about how tall." So, you need an exact answer to solve the problem.

$$66 + 24 = 90$$

Solution: The ostrich is 90 inches tall.

Problem Solving

Tell whether you need an exact answer or an estimate for each problem. Solve.

1. Ostriches lay the largest eggs on Earth. An ostrich egg can weigh up to 56 ounces. Approximately how much do two ostrich eggs weigh together?

Show your work.

2. At full speed, an emu can run 30 miles per hour. At that speed, how far can an emu run in 3 hours?

Name _____ Date _____

Reteach 5.8

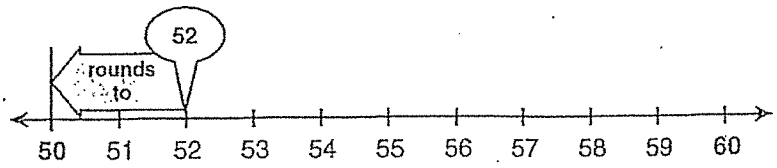
Estimate Differences

Estimate 52 – 38.

To estimate, round each number to its greatest place.

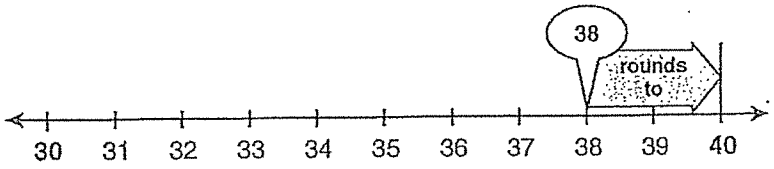
Because each number has 2 digits, round to the *tens* place.

The number 52 is closer to 50 than 60.



52 rounds to 50

The number 38 is closer to 40 than 30.



38 rounds to 40

$$\begin{array}{r} 52 \rightarrow\ 50 \\ -38 \rightarrow -40 \\ \hline 10 \end{array}$$

52 – 38 is *about* 10.

Round each number to the greatest place. Then subtract.

1. $\begin{array}{r} 38 \\ -21 \\ \hline \end{array}$

2. $\begin{array}{r} 58 \\ -32 \\ \hline \end{array}$

3. $\begin{array}{r} 681 \\ -605 \\ \hline \end{array}$

4. $\begin{array}{r} \$3.11 \\ -\ 1.99 \\ \hline \end{array}$

5. 63 – 36 _____

6. 88 – 29 _____

7. 721 – 398 _____

8. $8.14 – $4.11 _____

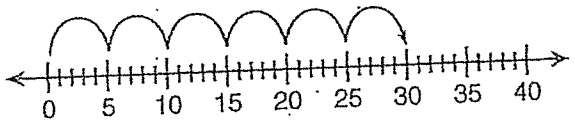
Name _____ Date _____

Reteach 8.5

Multiply With 5

You can use different ways to multiply 6 × 5.

You can skip count by 5s until you say 6 numbers.



Say: 5 · 10 · 15 · 20 · 25 · 30

You can use repeated addition.

5 + 5 + 5 + 5 + 5 + 5 = 30

$$\begin{array}{r} 5 \\ \times 6 \\ \hline 30 \end{array}$$

Find each product.

1. $\begin{array}{r} 4 \\ \times 5 \\ \hline \end{array}$

2. $\begin{array}{r} 5 \\ \times 2 \\ \hline \end{array}$

3. $\begin{array}{r} 3 \\ \times 5 \\ \hline \end{array}$

4. $\begin{array}{r} 7 \\ \times 5 \\ \hline \end{array}$

5. $\begin{array}{r} 5 \\ \times 5 \\ \hline \end{array}$

6. $\begin{array}{r} 5 \\ \times 4 \\ \hline \end{array}$

7. $\begin{array}{r} 2 \\ \times 5 \\ \hline \end{array}$

8. $\begin{array}{r} 6 \\ \times 5 \\ \hline \end{array}$

9. $\begin{array}{r} 5 \\ \times 3 \\ \hline \end{array}$

10. $7 \times 5 =$ _____

11. $8 \times 5 =$ _____

12. $5 \times 2 =$ _____

13. $5 \times 9 =$ _____

14. $5 \times 6 =$ _____

15. $5 \times 4 =$ _____

16. $5 \times 7 =$ _____

17. $5 \times 3 =$ _____

18. $9 \times 5 =$ _____

Name _____ Date _____

Reteach 99

Problem-Solving Decision: Multistep Problems

Jill walked 6 miles on Monday and 5 miles on Wednesday. Her goal is to walk 15 miles each week. How many miles does Jill have left to walk to meet her goal?

Step 1 Find the number of miles Jill walked. You are looking for a total, so add.

1.

6 ←miles walked on Monday
+5 ←miles walked on Wednesday
_____ ←total miles walked

Step 2 Find the number of miles Jill still needs to walk. Subtract to find the difference.

2.

15 ←goal
_____ ←total miles walked
_____ ←miles left to walk

3. **Solution:** Jill has _____ left to walk.

Solve each problem. **Show your work.**

4. There are 12 students in the Hiking Club. Each student paid dues of $12. If the club spent $122, how much money is left?

_____

5. James brought four 8-ounce bottles of water for a hiking trip. He drank 28 ounces of water. How many ounces of water are left?

_____

6. Tony hiked for 5 hours in the mountains. Elaine hiked in the mountains for 3 times as long. How much total time did Tony and Elaine hike in the mountains?

_____

Name _____ Date _____

Reteach 10.9

Algebra: Division Rules

Use related multiplication facts to discover special rules for dividing with 0 and 1.

When any number except 0 is divided by itself, the quotient is 1. $4 \div 4 = \square$ Think: $4 \times \square = 4$ $4 \times 1 = 4$ So $4 \div 4 = 1$.	When any number is divided by 1, the quotient is the dividend. $4 \div 1 = \square$ Think: $1 \times \square = 4$ $1 \times 4 = 4$ So $4 \div 1 = 4$.
When 0 is divided by any number except 0, the quotient is 0. $0 \div 4 = \square$ Think: $4 \times \square = 0$ $4 \times 0 = 0$ So $0 \div 4 = 0$.	You cannot divide any number by 0. $4 \div 0 = \square$ Think: $0 \div \square = 4$ No number can be placed in the box to make a true sentence. So, 4 cannot be divided by 0.

Divide.

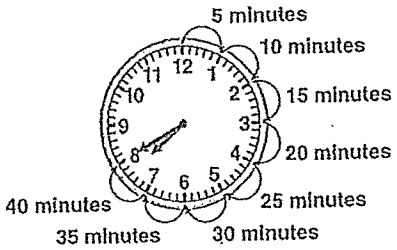
1. $7 \div 1$ _____
2. $8 \div 8$ _____
3. $0 \div 5$ _____
4. $0 \div 2$ _____
5. $2 \div 1$ _____
6. $7 \div 7$ _____
7. $0 \div 7$ _____
8. $9 \div 1$ _____
9. $2 \div 2$ _____
10. $6 \div 6$ _____
11. $5 \div 1$ _____
12. $0 \div 3$ _____
13. $0 \div 9$ _____
14. $4 \div 4$ _____
15. $3 \div 1$ _____

Name _____ Date _____

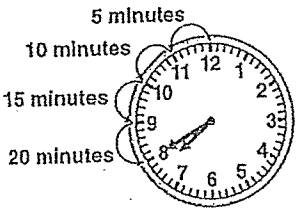
Reteach 12.2

Time to Five Minutes

You can tell time by the number of 5-minute steps after or before the hour.



40 minutes after seven



20 minutes before eight

Describe each time as minutes after an hour and minutes before an hour.

1. 

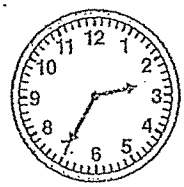
_____

_____

2. 

_____

_____

3. 

_____

_____

4. 

_____

_____