



Name _____

Date _____

Lesson 1 - Addition of Doubles to 10
Worksheet A

1. Write the sum of each addition sentence.

- a) $3+3 = 6$ b) $1+1 = 2$ c) $5+5 = 10$
 d) $4+4 = 8$ e) $0+0 = 0$ f) $2+2 = 4$
 g) $5+5 = 10$ h) $4+4 = 8$ i) $1+1 = 2$

2. Describe how knowing that $2+2=4$ could help you quickly add $2+3$.

You are just adding one more so $2+3=5$

3. Write the missing addend or sum to prove each equation.

- a) $4 + 4 = 8$ b) $3+3 = 6$ c) $7 + 7 = 14$
 d) $5 + 5 = 10$ e) $2 + 2 = 4$ f) $1 + 1 = 2$
 g) $4 + 4 = 8$ h) $4 + 4 = 8$ i) $5+5 = 10$

4. Complete each double number family.

- a) $2 + 2 = 4$ b) $5 + 5 = 10$ c) $3 + 3 = 6$
 $4 - 2 = 2$ $10 - 5 = 5$ $6 - 3 = 3$

5. What pattern do you notice when adding doubles?

When adding doubles you know that the sum is double the number you start with. Eg. $3+3=6$ $6-3=3$

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Numbers - Number Operations
 Grade 2 - Mathematics

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Name _____

Date _____

Lesson 1 - Addition of Doubles to 10
Worksheet B

1. Write the sum of each addition sentence.

- a) $3+3 = 6$ b) $1+1 = 2$ c) $5+5 = 10$
 d) $4+4 = 8$ e) $2+2 = 4$ f) $2+2 = 4$
 g) $5+5 = 10$ h) $0+0 = 0$ i) $4+4 = 8$

2. Describe how knowing that $5+5=10$ could help you quickly add $5+6$.

You are just adding one more so $5+6=11$

3. Write the missing addend or sum to prove each equation.

- a) $4 + 4 = 8$ b) $0+0 = 0$ c) $5 + 5 = 10$
 d) $5 + 5 = 10$ e) $2 + 2 = 4$ f) $1 + 1 = 2$
 g) $4 + 4 = 8$ h) $3 + 3 = 6$ i) $2+2 = 4$

4. Complete each number family.

- a) $5 + 5 = 10$ b) $4 + 4 = 8$ c) $3 + 3 = 6$
 $10 - 5 = 5$ $8 - 4 = 4$ $6 - 3 = 3$

5. What pattern do you notice when adding doubles?

When you add doubles you know that when you subtract the same number from the sum you get the same answer. Eg. $5+5=10$ $10-5=5$

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Numbers - Number Operations
 Grade 2 - Mathematics

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Name _____

Date _____

Lesson 1 - Addition of Doubles to 10
Worksheet C

1. Write the sum of each addition sentence.

- a) $3+3 = 6$ b) $1+1 = 2$ c) $5+5 = 10$
 d) $4+4 = 8$ e) $6+6 = 12$ f) $2+2 = 4$
 g) $9+9 = 18$ h) $7+7 = 14$ i) $8+8 = 16$

2. Describe how knowing that $9+9=18$ could help you quickly add $10+10$.

You are adding 2 more so $10+10=20$

3. Write the missing addend or sum to prove each equation.

- a) $4 + 4 = 8$ b) $6+6 = 12$ c) $7 + 7 = 14$
 d) $5 + 5 = 10$ e) $2 + 2 = 4$ f) $1 + 1 = 2$
 g) $9 + 9 = 18$ h) $7 + 7 = 14$ i) $8+8 = 16$

4. Complete each number family.

- a) $7 + 7 = 14$ b) $8 + 8 = 16$ c) $9 + 9 = 18$
 $14 - 7 = 7$ $16 - 8 = 8$ $18 - 9 = 9$

5. What pattern do you notice when adding doubles?

When adding doubles you know that the sum is double the number you start with. Eg. $3+3=6$ $6-3=3$

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Numbers - Number Operations
 Grade 2 - Mathematics



Name _____

Date _____

Lesson 1 - Addition of Doubles to 10
Worksheet D

1. Write the sum of each addition sentence.

- a) $3+3 = 6$ b) $1+1 = 2$ c) $5+5 = 10$
 d) $4+4 = 8$ e) $6+6 = 12$ f) $2+2 = 4$
 g) $9+9 = 18$ h) $7+7 = 14$ i) $8+8 = 16$

2. Describe how knowing that $9+9=18$ could help you quickly add $10+10$.

You are adding 2 more so $10+10=20$

3. Write the addition sentence for each of the sums.

- a) $18 = 9+9$ b) $14 = 7+7$ c) $12 = 6+6$
 d) $10 = 5+5$ e) $6 = 3+3$ f) $4 = 2+2$
 g) $8 = 4+4$ h) $2 = 1+1$ i) $16 = 8+8$

4. Complete each number family.

- a) $7 + 7 = 14$ b) $8 + 8 = 16$ c) $9 + 9 = 18$
 $14 - 7 = 7$ $16 - 8 = 8$ $18 - 9 = 9$

5. What pattern do you notice when adding doubles?

When adding doubles, the sum is double the number you start with. Eg. $5+5=10$ $10-5=5$

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Numbers - Number Operations
 Grade 2 - Mathematics




Name _____
Date _____

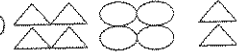
Lesson 2- Addition Facts to 10
Worksheet A

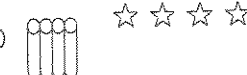
1. Write the sum of each number sentence.

- a) $2 + 2 = 4$ b) $2 + 3 = 5$ c) $5 + 4 = 9$ d) $3 + 7 = 10$
 e) $5 + 3 = 8$ f) $7 + 2 = 9$ g) $2 + 8 = 10$ h) $7 + 1 = 8$
 i) $9 + 1 = 10$ j) $6 + 1 = 7$ k) $4 + 0 = 4$ l) $6 + 3 = 9$

2. Write the related facts for each picture.

a)  $4 + 3 = 7$
 $3 + 4 = 7$

b)  $6 + 4 = 10$
 $4 + 6 = 10$

c)  $4 + 4 = 8$
 $4 + 4 = 8$

3. List all of the facts (include all family facts) that have the sum of 6.

- $0 + 6 = 6$ $6 + 0 = 6$ $1 + 5 = 6$ $5 + 1 = 6$
 $2 + 4 = 6$ $4 + 2 = 6$ $3 + 3 = 6$




Name _____
Date _____


Lesson 2- Addition Facts to 10
Worksheet B


1. Write the sum or addend of each number sentence.

- a) $7 + 3 = 10$ b) $2 + 5 = 7$ c) $3 + 4 = 7$ d) $3 + 5 = 8$
 e) $5 + 5 = 10$ f) $7 + 2 = 9$ g) $8 + 2 = 10$ h) $4 + 2 = 6$
 i) $1 + 8 = 9$ j) $3 + 6 = 9$ k) $1 + 7 = 8$ l) $6 + 4 = 10$

2. Write the related facts for each picture.

a)  $6 + 4 = 10$
 $4 + 6 = 10$

b)  $6 + 5 = 11$
 $5 + 6 = 11$

c)  $5 + 6 = 11$
 $6 + 5 = 11$

3. List all of the facts (include all family facts) that have the sum of 8.

- $3 + 0 = 8$ $7 + 1 = 8$ $0 + 8 = 8$ $1 + 7 = 8$ $4 + 4 = 8$ $2 + 6 = 8$ $6 + 2 = 8$ $3 + 5 = 8$
 $4 + 4 = 8$ $5 + 3 = 8$ $6 + 2 = 8$




Name _____
Date _____

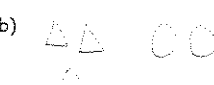
Lesson 2- Addition Facts to 10
Worksheet C


1. Write the sum or addend for each number sentence.

- a) $7 + 3 = 10$ b) $2 + 5 = 7$ c) $5 + 4 = 9$ d) $2 + 3 = 5$
 e) $6 + 4 = 10$ f) $7 + 3 = 9$ g) $3 + 6 = 9$ h) $4 + 2 = 6$
 i) $2 + 8 = 10$ j) $4 + 6 = 10$ k) $6 + 3 = 8$ l) $3 + 2 = 5$

2. Draw a picture to represent each fact. Write the related fact.

a)  $3 + 7 = 10$
 $7 + 3 = 10$

b)  $3 + 2 = 5$
 $2 + 3 = 5$

c)  $1 + 6 = 7$
 $6 + 1 = 7$

3. List all of the facts (include all family facts) that have the sum of 10.

- $0 + 10 = 10$ $10 + 0 = 10$ $1 + 9 = 10$ $9 + 1 = 10$ $2 + 8 = 10$ $8 + 2 = 10$ $3 + 7 = 10$ $7 + 3 = 10$ $4 + 6 = 10$ $6 + 4 = 10$
 $5 + 5 = 10$ $6 + 4 = 10$ $7 + 3 = 10$ $8 + 2 = 10$ $9 + 1 = 10$




Name _____
Date _____

Lesson 2- Addition Facts to 10
Worksheet D


1. Write the sum or addend for each number sentence.

- a) $7 + 2 = 9$ b) $2 + 0 = 2$ c) $3 + 4 = 7$ d) $2 + 6 = 8$
 e) $6 + 4 = 10$ f) $7 + 0 = 7$ g) $3 + 6 = 9$ h) $7 + 2 = 9$
 i) $1 + 8 = 9$ j) $2 + 8 = 10$ k) $6 + 3 = 9$ l) $2 + 5 = 7$

2. Draw a picture to represent each fact. Write the related fact.

a)  $9 + 1 = 10$
 $1 + 9 = 10$

b)  $4 + 5 = 9$
 $5 + 4 = 9$

c)  $4 + 6 = 10$
 $6 + 4 = 10$

3. List all of the facts (include all family facts) that have the sum of 10.

- $0 + 10 = 10$ $10 + 0 = 10$ $1 + 9 = 10$ $9 + 1 = 10$ $2 + 8 = 10$ $8 + 2 = 10$ $3 + 7 = 10$ $7 + 3 = 10$ $4 + 6 = 10$ $6 + 4 = 10$
 $5 + 5 = 10$ $6 + 4 = 10$ $7 + 3 = 10$ $8 + 2 = 10$ $9 + 1 = 10$

Lesson 3 - Subtraction Facts to 10
Worksheet A

1. Find the difference for each fact.

a) $7 - 4 = 3$ b) $10 - 6 = 4$ c) $8 - 4 = 4$ d) $8 - 7 = 1$
 e) $5 - 2 = 3$ f) $7 - 4 = 3$ g) $9 - 9 = 0$ h) $7 - 2 = 5$
 i) $9 - 8 = 1$ j) $8 - 6 = 2$ k) $10 - 9 = 1$ l) $8 - 6 = 2$

2. Solve the difference for each number sentence and write the related subtraction sentence.

a) $10 - 7 = 3$ b) $9 - 2 = 7$ c) $10 - 8 = 2$
 $10 - 3 = 7$ $9 - 7 = 2$ $10 - 2 = 8$
 d) $8 - 6 = 2$ e) $9 - 5 = 4$ f) $8 - 5 = 3$
 $8 - 2 = 6$ $9 - 4 = 5$ $8 - 3 = 5$

3. Solve the difference for each fact, then write the strategy for the group of facts.

a) $3 - 3 = 0$ b) $10 - 10 = 0$ c) $6 - 6 = 0$ d) $8 - 8 = 0$

Strategy:

When subtracting one number by the same number, the difference is always 0.

Lesson 3 - Subtraction Facts to 10
Worksheet B

1. Solve the difference for each number sentence and write the family facts.

a) $10 - 7 = 3$ b) $6 - 2 = 4$ c) $10 - 8 = 2$
 $10 - 3 = 7$ $6 - 4 = 2$ $10 - 2 = 8$
 $7 + 3 = 10$ $4 + 2 = 6$ $2 + 8 = 10$
 $3 + 7 = 10$ $2 + 4 = 6$ $8 + 2 = 10$
 d) $8 - 6 = 2$ e) $9 - 5 = 4$ f) $9 - 8 = 1$
 $8 - 2 = 6$ $9 - 4 = 5$ $9 - 1 = 8$
 $6 + 2 = 8$ $4 + 5 = 9$ $8 + 1 = 9$
 $2 + 6 = 8$ $5 + 4 = 9$ $1 + 8 = 9$

2. Solve the difference for each fact, then write the strategy for the group of facts.

a) $10 - 6 = 4$ b) $8 - 5 = 3$ c) $4 - 3 = 1$ d) $10 - 4 = 6$

Strategy:

Even numbers subtract even is always even.
 Even subtract odd is always odd.

Lesson 3 - Subtraction Facts to 10
Worksheet C

1. Solve the difference for each number sentence and write the family facts.

a) $7 - 5 = 2$ b) $7 - 5 = 2$ c) $10 - 3 = 7$
 $7 - 2 = 5$ $7 - 2 = 5$ $10 - 7 = 3$
 $5 + 2 = 7$ $2 + 5 = 7$ $3 + 7 = 10$
 $2 + 5 = 7$ $5 + 2 = 7$ $7 + 3 = 10$
 d) $10 - 1 = 9$ e) $10 - 4 = 6$ f) $9 - 4 = 5$
 $10 - 9 = 1$ $10 - 4 = 6$ $9 - 5 = 4$
 $9 + 1 = 10$ $6 + 4 = 10$ $5 + 4 = 9$
 $1 + 9 = 10$ $4 + 6 = 10$ $4 + 5 = 9$

2. Give an example of facts that will fit each strategy.

a) $3 - 3 = 0$ b) $7 - 7 = 0$ c) $8 - 8 = 0$

Strategy: A number subtract itself is always 0.

d) $4 - 1 = 3$ e) $7 - 1 = 6$ f) $8 - 1 = 7$

Strategy: A number subtract 1 is always one less.

Lesson 3 - Subtraction Facts to 10
Worksheet D

1. Look at the cards and write the family of facts.

[10] [6] [4] [9] [8] [1] [9] [2] [7]
 a) $10 - 6 = 4$ b) $9 - 8 = 1$ c) $9 - 2 = 7$
 $10 - 4 = 6$ $9 - 1 = 8$ $4 - 7 = 2$
 $6 + 4 = 10$ $1 + 8 = 9$ $7 + 2 = 9$
 $4 + 6 = 10$ $8 + 1 = 9$ $2 + 7 = 9$
 [4] [5] [9] [8] [2] [6] [2] [5] [7]
 d) $9 - 4 = 5$ e) $8 - 2 = 6$ f) $7 - 2 = 5$
 $9 - 5 = 4$ $8 - 6 = 2$ $7 - 5 = 2$
 $5 + 4 = 9$ $6 + 2 = 8$ $2 + 5 = 7$
 $4 + 5 = 9$ $2 + 6 = 8$ $5 + 2 = 7$

2. Write down a subtraction strategy and give 3 examples to show how the strategy works.

a) $9 - 8 = 1$ b) $8 - 7 = 1$ c) $6 - 5 = 1$

Strategy:

A number subtract one less than itself always

Use the chart to solve each problem. Use the 5-step method to work through each problem.

Movie	Number of Students
Cheaper by the Dozen	4
Home Alone	5
Shrek	10
Chicken Little	7
Other	8

1. Raina and Noel surveyed the students in Grade 2 to find out favorite movies.

a) How many people preferred Shrek to Cheaper by the Dozen?

Step 1 - Key numbers? Shrek = 10, Cheaper by the Dozen = 4

Step 2 - Number Sentence? Subtract.

$$\begin{array}{r} 10 \\ - 4 \\ \hline \end{array}$$

Step 3 - Answer? 6

Step 4 - Sentence There were 6 people who preferred Shrek to CBTD.

Step 5 - Check your answer (Hint - Use addition to check!)

$$4 + 6 = 10$$

b) How many people voted for Chicken Little and Home Alone?

Step 1 - Key numbers? Chicken Little = 7, Home Alone = 5

Step 2 - Number Sentence? add.

$$\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$$

Step 3 - Answer? 12

Step 4 - Sentence There were 12 people who voted for Chicken Little and Home Alone.

Step 5 - Check your answer (Hint - Use subtraction to check!)

$$\begin{array}{r} 12 \\ - 7 \\ \hline 5 \\ \hline \end{array}$$

c) How many more students chose Shrek to Chicken Little?

Step 1 - Key numbers? Shrek = 10, Chicken Little = 7

Step 2 - Number Sentence? Subtract.

Step 3 - Answer?

$$\begin{array}{r} 10 \\ - 7 \\ \hline 3 \end{array}$$

Step 4 - Sentence There were 3 students who chose Shrek to Chicken Little.

Step 5 - Check your answer (Hint - Use addition to check!)

$$3 + 7 = 10$$

Use the chart to solve each problem. Use the 5-step method to work through each problem.

Month	Number of Students
January	4
March	6
July	8
August	12
September	6

1. Aiden and Ahmed surveyed the students in their class to find out what month they had their birthdays.

a) How many students had their birthdays in January and September?

Step 1 - Key numbers? January = 4, September = 6

Step 2 - Number Sentence? add

$$\begin{array}{r} 4 \\ + 6 \\ \hline \end{array}$$

Step 3 - Answer? 10

Step 4 - Sentence There were 10 students who had their birthdays in January and September.

Step 5 - Check your answer (Hint - Use subtraction to check!)

$$10 - 4 = 6$$

b) How many more students have birthdays in August compared to July?

Step 1 - Key numbers? August = 12, July = 8

Step 2 - Number Sentence? Subtract

Step 3 - Answer?

$$\begin{array}{r} 12 \\ - 8 \\ \hline 4 \end{array}$$

Step 4 - Sentence Four more students have their birthdays in August compared to July.

Step 5 - Check your answer (Hint - Use addition to check!)

$$\begin{array}{r} 4 \\ + 8 \\ \hline 12 \end{array}$$

c) How many students are in the class? (Aiden and Ahmed are included in the survey)

Step 1 - Key numbers? 4, 6, 8, 12, 6

Step 2 - Number Sentence? add

Step 3 - Answer?

$$\begin{array}{r} 4 \\ + 6 \\ + 8 \\ + 12 \\ + 6 \\ \hline 36 \end{array}$$

Step 4 - Sentence There are 36 students in the class.

Step 5 - Check your answer (Hint - Use subtraction to check!)

check!

Lesson 4 - Problem Solving
Worksheet C

Name _____
Date _____

Use the chart to solve each problem. Use the 5-step method to work through each problem.

Movie	Number of Students
Cheaper by the Dozen	4
Home Alone	5
Shrek	10
Chicken Little	7
Other	8

1. Raina and Noel surveyed the students in Grade 3 to find out favorite movies. *See worksheet A*

a) How many people preferred Shrek to Cheaper by the Dozen?

Step 1 -

Step 2 -

Step 3 -

Step 4 -

Step 5 -

b) How many people voted for Chicken Little and Home Alone?
See worksheet A

Step 1 -

Step 2 -

Step 3 -

Step 4 -

Step 5 -

c) How many students did Raina and Joel survey?

Step 1 - 4, 5, 10, 7, 8

Step 2 - (add)

Step 3 -

Step 4 -

Step 5 - check!

$$\begin{array}{r} 4 \\ 5 \\ 10 \\ 7 \\ 8 \\ \hline 34 \end{array}$$

Raina and Joel surveyed 34 students

Lesson 4 - Problem Solving
Worksheet D

Name _____
Date _____

Use the chart to solve each problem. Use the 5-step method to work through each problem.

Month	Number of Students
January	4
March	6
July	8
August	12
September	6

1. Aiden and Ahmed surveyed the students in their class to find out what month they had their birthdays. *See worksheet B*

a) How many students had their birthdays in January and September?

Step 1 -

Step 2 -

Step 3 -

Step 4 -

Step 5 -

b) How many more students have birthdays in August compared to July? *See worksheet B*

Step 1 -

Step 2 -

Step 3 -

Step 4 -

Step 5 -

c) How many students are in the class? (Aiden and Ahmed are included in the survey) *See worksheet B*

Step 1 -

Step 2 -

Step 3 -

Step 4 -

Step 5 -

Lesson 5 - Addition Without Regrouping
Worksheet A

1. Write the sum for each addition sentence.

a) $\begin{array}{r} 24 \\ + 4 \\ \hline 28 \end{array}$ b) $\begin{array}{r} 17 \\ + 2 \\ \hline 19 \end{array}$ c) $\begin{array}{r} 34 \\ + 5 \\ \hline 39 \end{array}$ d) $\begin{array}{r} 42 \\ + 4 \\ \hline 46 \end{array}$

e) $\begin{array}{r} 16 \\ + 23 \\ \hline 39 \end{array}$ f) $\begin{array}{r} 78 \\ + 20 \\ \hline 98 \end{array}$ g) $\begin{array}{r} 57 \\ + 41 \\ \hline 98 \end{array}$ h) $\begin{array}{r} 26 \\ + 53 \\ \hline 79 \end{array}$

2. Show each sum using base-10 blocks. Explain how to add each equation.

a) $\begin{array}{r} 35 \\ + 24 \\ \hline 59 \end{array}$ b) $\begin{array}{r} 28 \\ + 11 \\ \hline 39 \end{array}$

c) $\begin{array}{r} 62 \\ + 15 \\ \hline 77 \end{array}$ d) $\begin{array}{r} 47 \\ + 51 \\ \hline 98 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual sum.

a) $\begin{array}{r} 17 \\ + 22 \\ \hline 39 \end{array}$ b) $\begin{array}{r} 26 \\ + 31 \\ \hline 57 \end{array}$ c) $\begin{array}{r} 51 \\ + 46 \\ \hline 97 \end{array}$

4. Use 5 step method to solve:

a) Asia has 15 bubble gums. She placed money into the bubble gum machine and received 3 more gums. How many bubble gums does Asia have all together?

Step 1 - Numbers: $\underline{15}$, $\underline{3}$

Step 2 - Number Sentence: $\begin{array}{r} 15 \\ + 3 \\ \hline \end{array}$

Step 3 - Answer: $\underline{18}$

Step 4 - Sentence: Asia has 18 bubble gums all together.

Step 5 - Check (Prove your answer - prove by subtracting)
 $18 - 3 = 15$

b) Harlon won 25 tickets to the movie theater by competing in a radio contest. He already bought 13 tickets for all of his friends. How many tickets does Harlon have now?

Step 1 - Numbers: $\underline{25}$, $\underline{13}$

Step 2 - Number Sentence: $\begin{array}{r} 25 \\ + 13 \\ \hline \end{array}$

Step 3 - Answer: $\underline{38}$

Step 4 - Sentence: Harlon now has 38 tickets

Step 5 - Check (Prove your answer) $38 - 13 = 25$

Lesson 5 - Addition Without Regrouping
Worksheet B

1. Write the sum for each addition sentence.

a) $\begin{array}{r} 24 \\ + 4 \\ \hline 28 \end{array}$ b) $\begin{array}{r} 17 \\ + 42 \\ \hline 59 \end{array}$ c) $\begin{array}{r} 34 \\ + 35 \\ \hline 69 \end{array}$ d) $\begin{array}{r} 42 \\ + 24 \\ \hline 66 \end{array}$

e) $\begin{array}{r} 56 \\ + 23 \\ \hline 79 \end{array}$ f) $\begin{array}{r} 48 \\ + 20 \\ \hline 68 \end{array}$ g) $\begin{array}{r} 57 \\ + 41 \\ \hline 98 \end{array}$ h) $\begin{array}{r} 26 \\ + 12 \\ \hline 38 \end{array}$

2. Show each sum using base-10 blocks. Explain how to add each equation.

a) $\begin{array}{r} 35 \\ + 24 \\ \hline 59 \end{array}$ b) $\begin{array}{r} 28 \\ + 11 \\ \hline 39 \end{array}$

c) $\begin{array}{r} 42 \\ + 25 \\ \hline 67 \end{array}$ d) $\begin{array}{r} 17 \\ + 31 \\ \hline 48 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual sum.

a) $\begin{array}{r} 17 \\ + 62 \\ \hline 79 \end{array}$ b) $\begin{array}{r} 26 \\ + 31 \\ \hline 57 \end{array}$ c) $\begin{array}{r} 45 \\ + 54 \\ \hline 99 \end{array}$

4. Use 5 step method to solve:

a) Asia has 25 bubble gums. She placed money into the bubble gum machine and received 22 more gums. How many bubble gums does Asia have all together?

Step 1 - Numbers: $\underline{25}$, $\underline{22}$

Step 2 - Number Sentence: $\begin{array}{r} 25 \\ + 22 \\ \hline \end{array}$

Step 3 - Answer: $\underline{47}$

Step 4 - Sentence: Asia has 47 bubble gums all together.

Step 5 - Check $\begin{array}{r} 47 \\ - 22 \\ \hline 25 \end{array}$

b) Harlon won 75 tickets to the movie theater by competing in a radio contest. He already bought 13 tickets for all of his friends. How many tickets does Harlon have now?

Step 1 - Numbers: $\underline{75}$, $\underline{13}$

Step 2 - Number Sentence: $\begin{array}{r} 75 \\ + 13 \\ \hline \end{array}$

Step 3 - Answer: $\underline{88}$

Step 4 - Sentence: Harlon now has 88 tickets

Step 5 - Check $\begin{array}{r} 88 \\ - 13 \\ \hline 75 \end{array}$

Lesson 5 - Addition Without Regrouping
Worksheet C

1. Write the sum for each addition sentence.

a) $\begin{array}{r} 24 \\ + 34 \\ \hline 58 \end{array}$	b) $\begin{array}{r} 17 \\ + 82 \\ \hline 99 \end{array}$	c) $\begin{array}{r} 34 \\ + 35 \\ \hline 69 \end{array}$	d) $\begin{array}{r} 42 \\ + 24 \\ \hline 66 \end{array}$
e) $\begin{array}{r} 516 \\ + 23 \\ \hline 539 \end{array}$	f) $\begin{array}{r} 428 \\ + 20 \\ \hline 448 \end{array}$	g) $\begin{array}{r} 357 \\ + 41 \\ \hline 398 \end{array}$	h) $\begin{array}{r} 226 \\ + 153 \\ \hline 379 \end{array}$

2. Write the equation that is represented by the base-10 blocks. Explain how to add each equation.

a)	Number Sentence $\begin{array}{r} 24 \\ + 34 \\ \hline 58 \end{array}$
b)	Number Sentence $\begin{array}{r} 17 \\ + 82 \\ \hline 99 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual sum.

a) $\begin{array}{r} 17 \\ + 22 \\ \hline 39 \end{array}$ $\begin{array}{r} 20 \\ + 20 \\ \hline 40 \end{array}$	b) $\begin{array}{r} 26 \\ + 31 \\ \hline 57 \end{array}$ $\begin{array}{r} 30 \\ + 30 \\ \hline 60 \end{array}$	c) $\begin{array}{r} 51 \\ + 46 \\ \hline 97 \end{array}$ $\begin{array}{r} 50 \\ + 50 \\ \hline 100 \end{array}$
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4. Use 5 step method to solve:

a) Asia has 45 bubble gums. She placed money into the bubble gum machine and received 52 more gums. How many bubble gums does Asia have all together?

Step 1 - $45, 52$

Step 2 - add. $\begin{array}{r} 45 \\ + 52 \\ \hline \end{array}$

Step 3 - $\begin{array}{r} 45 \\ + 52 \\ \hline 97 \end{array}$

Step 4 - Asia has 97 bubblegums altogether.

Step 5 - $\begin{array}{r} 97 \\ - 52 \\ \hline 45 \end{array}$

b) Harlon won 25 tickets to the movie theater by competing in a radio contest. He already bought 24 tickets for all of his friends. How many tickets does Harlon have now?

Step 1 - $25, 24$

Step 2 - add. $\begin{array}{r} 25 \\ + 24 \\ \hline \end{array}$

Step 3 - $\begin{array}{r} 25 \\ + 24 \\ \hline 49 \end{array}$

Step 4 - Harlon now has 49 tickets

Step 5 - $\begin{array}{r} 49 \\ - 24 \\ \hline 25 \end{array}$

Lesson 5 - Addition Without Regrouping
Worksheet D

1. Fill in a number to create an addition sentence with no regrouping. Find the sum of the equation you created. *Answers may vary*

EXAMPLES

a) $\begin{array}{r} 24 \\ + 3\boxed{1} \\ \hline 55 \end{array}$	b) $\begin{array}{r} 1\boxed{7} \\ + 82 \\ \hline 99 \end{array}$	c) $\begin{array}{r} 34 \\ + 3\boxed{3} \\ \hline 67 \end{array}$	d) $\begin{array}{r} 4\boxed{6} \\ + 24 \\ \hline 69 \end{array}$
e) $\begin{array}{r} 1\boxed{4} \\ + 23 \\ \hline 37 \end{array}$	f) $\begin{array}{r} 2\boxed{2} \\ + 52 \\ \hline 74 \end{array}$	g) $\begin{array}{r} \boxed{19} \\ + 41 \\ \hline 55 \end{array}$	h) $\begin{array}{r} \boxed{58} \\ + \boxed{2} \\ \hline 60 \end{array}$

2. Write the equation that is represented by the base-10 blocks. Explain how to add each equation.

a)	Number Sentence $\begin{array}{r} 24 \\ + 31 \\ \hline 55 \end{array}$
b)	Number Sentence $\begin{array}{r} 17 \\ + 82 \\ \hline 99 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual sum.

a) $\begin{array}{r} 17 \\ + 62 \\ \hline 79 \end{array}$ $\begin{array}{r} 20 \\ + 60 \\ \hline 80 \end{array}$	b) $\begin{array}{r} 26 \\ + 73 \\ \hline 99 \end{array}$ $\begin{array}{r} 30 \\ + 70 \\ \hline 100 \end{array}$	c) $\begin{array}{r} 41 \\ + 54 \\ \hline 95 \end{array}$ $\begin{array}{r} 40 \\ + 50 \\ \hline 90 \end{array}$
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4. Use 5 step method to solve:

a) Asia has 425 bubble gums. She placed money into the bubble gum machine and received 22 more gums. How many bubble gums does Asia have all together?

Step 1 - $425, 22$

Step 2 - add. $\begin{array}{r} 425 \\ + 22 \\ \hline \end{array}$

Step 3 - $\begin{array}{r} 425 \\ + 22 \\ \hline 447 \end{array}$

Step 4 - Asia has 447 bubblegums altogether.

Step 5 - $\begin{array}{r} 447 \\ - 22 \\ \hline 425 \end{array}$

b) Harlon won 25 tickets to the movie theater by competing in a radio contest. He already bought 23 tickets for all of his friends. How many tickets does Harlon have now?

Step 1 - $25, 23$

Step 2 - add. $\begin{array}{r} 25 \\ + 23 \\ \hline \end{array}$

Step 3 - $\begin{array}{r} 25 \\ + 23 \\ \hline 48 \end{array}$

Step 4 - Harlon now has 48 tickets.

Step 5 - $\begin{array}{r} 48 \\ - 23 \\ \hline 25 \end{array}$

1. Write the sum for each addition sentence.

a) $\begin{array}{r} 84 \\ + 7 \\ \hline 91 \end{array}$ b) $\begin{array}{r} 17 \\ + 59 \\ \hline 76 \end{array}$ c) $\begin{array}{r} 65 \\ + 36 \\ \hline 101 \end{array}$ d) $\begin{array}{r} 38 \\ + 21 \\ \hline 59 \end{array}$

e) $\begin{array}{r} 56 \\ + 38 \\ \hline 94 \end{array}$ f) $\begin{array}{r} 28 \\ + 83 \\ \hline 111 \end{array}$ g) $\begin{array}{r} 36 \\ + 24 \\ \hline 60 \end{array}$ h) $\begin{array}{r} 78 \\ + 13 \\ \hline 91 \end{array}$

2. Show each sum using base-10 blocks. Explain how to add each equation.

a) $\begin{array}{r} 35 \\ + 76 \\ \hline 111 \end{array}$ b) $\begin{array}{r} 28 \\ + 78 \\ \hline 106 \end{array}$

c) $\begin{array}{r} 46 \\ + 25 \\ \hline 71 \end{array}$ d) $\begin{array}{r} 47 \\ + 53 \\ \hline 100 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual sum.

a) $\begin{array}{r} 77 \\ + 23 \\ \hline 100 \end{array}$ b) $\begin{array}{r} 76 \\ + 46 \\ \hline 122 \end{array}$ c) $\begin{array}{r} 58 \\ + 86 \\ \hline 144 \end{array}$

4. Use 5 step method to solve:

a) Lily went to the Art Gallery to buy 2 paintings. The first painting she purchased cost \$35. The second painting she purchased cost \$17. How much did Lily spend at the Art Gallery?

Step 1 - Numbers: 35, 17

Step 2 - Number Sentence: $\begin{array}{r} 35 \\ + 17 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 35 \\ + 17 \\ \hline 52 \end{array}$

Step 4 - Sentence: Lily spent \$52 at the Art Gallery.

Step 5 - Check (Prove your answer - prove by subtracting) $\begin{array}{r} 52 \\ - 17 \\ \hline 35 \end{array}$

b) There are 27 students in one grade 2 class and 26 students in the other grade 2 class. How many students are in grade 2?

Step 1 - Numbers: 27, 26

Step 2 - Number Sentence: $\begin{array}{r} 27 \\ + 26 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 27 \\ + 26 \\ \hline 53 \end{array}$

Step 4 - Sentence: There are 53 students in grade 2.

Step 5 - Check (Prove your answer) $\begin{array}{r} 53 \\ - 26 \\ \hline 27 \end{array}$

1. Write the sum for each addition sentence.

a) $\begin{array}{r} 84 \\ + 7 \\ \hline 91 \end{array}$ b) $\begin{array}{r} 17 \\ + 59 \\ \hline 76 \end{array}$ c) $\begin{array}{r} 65 \\ + 36 \\ \hline 101 \end{array}$ d) $\begin{array}{r} 387 \\ + 214 \\ \hline 601 \end{array}$

e) $\begin{array}{r} 516 \\ + 38 \\ \hline 554 \end{array}$ f) $\begin{array}{r} 428 \\ + 583 \\ \hline 1011 \end{array}$ g) $\begin{array}{r} 367 \\ + 245 \\ \hline 612 \end{array}$ h) $\begin{array}{r} 758 \\ + 153 \\ \hline 911 \end{array}$

2. Show each sum using base-10 blocks. Explain how to add each equation.

a) $\begin{array}{r} 35 \\ + 45 \\ \hline 80 \end{array}$ b) $\begin{array}{r} 98 \\ + 18 \\ \hline 116 \end{array}$

c) $\begin{array}{r} 467 \\ + 295 \\ \hline 762 \end{array}$ d) $\begin{array}{r} 217 \\ + 659 \\ \hline 876 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual sum.

a) $\begin{array}{r} 17 \\ + 64 \\ \hline 81 \end{array}$ b) $\begin{array}{r} 26 \\ + 66 \\ \hline 92 \end{array}$ c) $\begin{array}{r} 313 \\ + 495 \\ \hline 808 \end{array}$

4. Use 5 step method to solve:

a) Lily went to the Art Gallery to buy 2 paintings. The first painting she purchased cost \$43. The second painting she purchased cost \$17. How much did Lily spend at the Art Gallery?

Step 1 - Numbers: 43, 17

Step 2 - Number Sentence: $\begin{array}{r} 43 \\ + 17 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 43 \\ + 17 \\ \hline 60 \end{array}$

Step 4 - Sentence: Lily spent \$60 at the Art Gallery.

Step 5 - Check (Prove your answer - prove by subtracting) $\begin{array}{r} 60 \\ - 17 \\ \hline 43 \end{array}$

b) There are three grade 2 classes at West Park Elementary. 2A has 24 students, 2B has 21 students and 2C has 25 students. How many students are in grade 2 at West Park Elementary?

Step 1 - Numbers: 24, 21, 25

Step 2 - Number Sentence: $\begin{array}{r} 24 \\ + 21 \\ + 25 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 24 \\ + 21 \\ + 25 \\ \hline 70 \end{array}$

Step 4 - Sentence: There are 70 students in grade 2.

Step 5 - Check (Prove your answer)

Lesson 6- Addition With Regrouping
Worksheet C

1. Estimate the sum for each addition sentence by rounding. Then calculate the actual sum.

a) $\begin{array}{r} 84 \\ + 78 \\ \hline 162 \end{array}$ b) $\begin{array}{r} 17 \\ + 46 \\ \hline 63 \end{array}$ c) $\begin{array}{r} 66 \\ + 35 \\ \hline 101 \end{array}$ d) $\begin{array}{r} 42 \\ + 98 \\ \hline 140 \end{array}$

e) $\begin{array}{r} 76 \\ + 35 \\ \hline 111 \end{array}$ f) $\begin{array}{r} 48 \\ + 82 \\ \hline 130 \end{array}$ g) $\begin{array}{r} 57 \\ + 43 \\ \hline 100 \end{array}$ h) $\begin{array}{r} 246 \\ + 86 \\ \hline 332 \end{array}$

2. Show each sum using base-10 blocks. Explain how to add each equation.

a) $\begin{array}{r} 35 \\ + 85 \\ \hline 120 \end{array}$ b) $\begin{array}{r} 28 \\ + 23 \\ \hline 51 \end{array}$

c) $\begin{array}{r} 64 \\ + 38 \\ \hline 102 \end{array}$ d) $\begin{array}{r} 97 \\ + 59 \\ \hline 156 \end{array}$

3. Using the cards on the side, create an addition number sentence that shows addition with regrouping. You can use the cards more than once. Solve your sentence.

a) $\begin{array}{r} 84 \\ + 79 \\ \hline 163 \end{array}$ b) $\begin{array}{r} 47 \\ + 58 \\ \hline 105 \end{array}$

Numbers = Number Operations
Grade 2 - Mathematics

4. Use the problem solving process to solve:

a) Lily went to the Art Gallery to buy 2 paintings. The first painting she purchased cost \$665. The second painting she purchased cost \$87. How much did Lily spend at the Art Gallery?

Step 1 - $665, 87$

Step 2 - add $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

Step 3 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

Step 4 -

Lily spent \$752 at the Art Gallery.

Step 5 -

$\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

b) There are three grade 2 classes at West Park Elementary. 2A has 26 students, 2B has 28 students and 2C has 25 students. How many students are in grade 2 at West Park Elementary?

Step 1 - 26, 28, 25

Step 2 - add $\begin{array}{r} 26 \\ 28 \\ 25 \\ \hline 79 \end{array}$

Step 3 -

Step 4 -

There are 79 grade 2 students.

Step 5 -

(check)

Lesson 6- Addition With Regrouping
Worksheet D

1. Fill in the box with a number to make the addition sentence a regrouping problem. Estimate the sum for each addition sentence by rounding. Then calculate the actual sum. *answers may vary.*

Examples

a) $\begin{array}{r} 69 \\ + 7\boxed{5} \\ \hline 142 \end{array}$ b) $\begin{array}{r} 3\boxed{2} \\ + 88 \\ \hline 120 \end{array}$ c) $\begin{array}{r} 95 \\ + 8\boxed{6} \\ \hline 181 \end{array}$ d) $\begin{array}{r} 8\boxed{5} \\ + 26 \\ \hline 111 \end{array}$

e) $\begin{array}{r} 7\boxed{7} \\ + 27 \\ \hline 104 \end{array}$ f) $\begin{array}{r} 2\boxed{9} \\ + 57 \\ \hline 86 \end{array}$ g) $\begin{array}{r} 8\boxed{2} \\ + 48 \\ \hline 130 \end{array}$ h) $\begin{array}{r} 7\boxed{7} \\ + 6\boxed{0} \\ \hline 145 \end{array}$

2. Show each sum using base-10 blocks. Explain how to add each equation.

a) $\begin{array}{r} 35 \\ + 85 \\ \hline 120 \end{array}$ b) $\begin{array}{r} 28 \\ + 23 \\ \hline 51 \end{array}$

c) $\begin{array}{r} 44 \\ + 28 \\ \hline 72 \end{array}$ d) $\begin{array}{r} 297 \\ + 59 \\ \hline 356 \end{array}$

3. Using the cards on the side, create an addition number sentence that shows addition with regrouping. Solve your sentence. You may use the cards more than once.

a) $\begin{array}{r} 84 \\ + 96 \\ \hline 180 \end{array}$ b) $\begin{array}{r} 75 \\ + 46 \\ \hline 121 \end{array}$

Numbers = Number Operations
Grade 2 - Mathematics

4. Use the problem solving process to solve:

a) Lily went to the Art Gallery to buy 2 paintings. The first painting she purchased cost \$665. The second painting she purchased cost \$87. How much did Lily spend at the Art Gallery?

1 - $665, 87$

2 - add $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

3 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

4 - Lily spent \$752 at the Art Gallery.

5 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

6 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

7 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

8 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

9 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

10 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

11 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

12 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

13 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

14 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

15 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

16 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

17 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

18 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

19 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$

20 - $\begin{array}{r} 665 \\ + 87 \\ \hline 752 \end{array}$



Lesson 7 - Subtraction Without Regrouping
Worksheet A

Name _____

Date _____

1. Write the difference for each subtraction sentence.

a) $\begin{array}{r} 84 \\ - 3 \\ \hline 81 \end{array}$ b) $\begin{array}{r} 57 \\ - 42 \\ \hline 15 \end{array}$ c) $\begin{array}{r} 39 \\ - 36 \\ \hline 3 \end{array}$ d) $\begin{array}{r} 49 \\ - 26 \\ \hline 23 \end{array}$

e) $\begin{array}{r} 66 \\ - 24 \\ \hline 42 \end{array}$ f) $\begin{array}{r} 79 \\ - 59 \\ \hline 20 \end{array}$ g) $\begin{array}{r} 48 \\ - 25 \\ \hline 23 \end{array}$ h) $\begin{array}{r} 87 \\ - 55 \\ \hline 32 \end{array}$

2. Show each difference using base-10 blocks. Explain how to subtract each equation.

a) $\begin{array}{r} 35 \\ - 24 \\ \hline 11 \end{array}$ b) $\begin{array}{r} 28 \\ - 12 \\ \hline 16 \end{array}$

c) $\begin{array}{r} 48 \\ - 24 \\ \hline 24 \end{array}$ d) $\begin{array}{r} 88 \\ - 35 \\ \hline 53 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual difference.

a) $\begin{array}{r} 88 \\ - 26 \\ \hline 62 \end{array}$ b) $\begin{array}{r} 59 \\ - 31 \\ \hline 28 \end{array}$ c) $\begin{array}{r} 74 \\ - 54 \\ \hline 20 \end{array}$



4. Use 5 step method to solve:

a) Tyrone had 46 stickers. Anna has 33 stickers. How many more stickers does Tyrone have?

Step 1 - Numbers: $\begin{array}{r} 46 \\ - 33 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 46 \\ - 33 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 46 \\ - 33 \\ \hline 13 \end{array}$

Step 4 - Sentence: Tyrone has 13 more stickers than Anna.

Step 5 - Check (Prove your answer - prove by adding)

b) Ling works at the local theatre. On Friday he sold 67 tickets to Cars. On Saturday he sold 26 tickets. How many more tickets did Ling sell on Friday?

Step 1 - Numbers: $\begin{array}{r} 67 \\ - 26 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 67 \\ - 26 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 67 \\ - 26 \\ \hline 41 \end{array}$

Step 4 - Sentence: Ling sold 41 more tickets on Friday.

Step 5 - Check (Prove your answer)



Lesson 7 - Subtraction Without Regrouping
Worksheet B

Name _____

Date _____

1. Write the difference for each subtraction sentence.

a) $\begin{array}{r} 84 \\ - 53 \\ \hline 31 \end{array}$ b) $\begin{array}{r} 87 \\ - 42 \\ \hline 45 \end{array}$ c) $\begin{array}{r} 39 \\ - 34 \\ \hline 5 \end{array}$ d) $\begin{array}{r} 99 \\ - 36 \\ \hline 63 \end{array}$

e) $\begin{array}{r} 86 \\ - 22 \\ \hline 64 \end{array}$ f) $\begin{array}{r} 89 \\ - 55 \\ \hline 34 \end{array}$ g) $\begin{array}{r} 69 \\ - 55 \\ \hline 14 \end{array}$ h) $\begin{array}{r} 86 \\ - 53 \\ \hline 33 \end{array}$

2. Show each difference using base-10 blocks. Explain how to subtract each equation.

a) $\begin{array}{r} 35 \\ - 23 \\ \hline 12 \end{array}$ b) $\begin{array}{r} 68 \\ - 22 \\ \hline 46 \end{array}$

c) $\begin{array}{r} 46 \\ - 24 \\ \hline 22 \end{array}$ d) $\begin{array}{r} 37 \\ - 31 \\ \hline 6 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual difference.

a) $\begin{array}{r} 54 \\ - 21 \\ \hline 33 \end{array}$ b) $\begin{array}{r} 66 \\ - 33 \\ \hline 33 \end{array}$ c) $\begin{array}{r} 58 \\ - 46 \\ \hline 12 \end{array}$



4. Use 5 step method to solve:

a) Tyrone had 46 stickers. Anna has 31 stickers. How many more stickers does Tyrone have?

Step 1 - Numbers: $\begin{array}{r} 46 \\ - 31 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 46 \\ - 31 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 46 \\ - 31 \\ \hline 15 \end{array}$

Step 4 - Sentence: Tyrone has 15 more stickers than Anna.

Step 5 - Check (Prove your answer - prove by adding)

b) Ling works at the local theatre. On Friday he sold 67 tickets to Cars. On Saturday he sold 25 tickets. How many more tickets did Ling sell on Friday?

Step 1 - Numbers: $\begin{array}{r} 67 \\ - 25 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 67 \\ - 25 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 67 \\ - 25 \\ \hline 42 \end{array}$

Step 4 - Sentence: Ling sold 42 more tickets on Friday.

Step 5 - Check (Prove your answer)

Lesson 7 - Subtraction Without Regrouping
Worksheet C

1. Write the difference for each subtraction sentence.

a)
$$\begin{array}{r} 84 \\ - 53 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 87 \\ - 42 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 39 \\ - 34 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 99 \\ - 36 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 86 \\ - 24 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 88 \\ - 50 \\ \hline \end{array}$$

g)
$$\begin{array}{r} 65 \\ - 55 \\ \hline \end{array}$$

h)
$$\begin{array}{r} 86 \\ - 55 \\ \hline \end{array}$$

2. Write the equation that is represented by the base-10 blocks. Explain how to subtract each equation.

a)	Number Sentence $84 - 53 = 31$
----	--

b)	Number Sentence $88 - 50 = 38$
----	--

3. Estimate by rounding each number to the nearest 10. Then calculate the actual difference.

a)
$$\begin{array}{r} 52 \\ - 22 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 56 \\ - 31 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 75 \\ - 74 \\ \hline \end{array}$$

4. Use 5 step method to solve:

a) The grade 2's had a race on Sports Day. Carlos finished the race in 64 seconds. Ryann finished the race in 52 seconds. How much faster did Ryann run?

Step 1 - $64 - 52$

Step 2 - $64 - 52 = 12$

Step 3 - 12

Step 4 - Carlos finished the race in 64 seconds. Ryann finished the race in 52 seconds. Carlos finished the race 12 seconds faster than Ryann.

Step 5 - 12

b) Fernando was searching for a used computer games. At Benny's Computer Store and he saw a game he liked for \$85. Over at Horce's Games, he saw a game for \$56, but he would need to pay \$40 for a memory card. Which game store is cheaper and by how much?

Step 1 - $85 - 56 = 29$

Step 2 - $29 + 40 = 69$

Step 3 - 69

Step 4 - Benny's Computer Store is cheaper by \$69.

Step 5 - 69

Lesson 7 - Subtraction Without Regrouping
Worksheet D

1. Fill in a number to create a subtraction sentence with no regrouping. Find the sum of the equation you created.

a)
$$\begin{array}{r} 84 \\ - 3\boxed{5} \\ \hline \end{array}$$

b)
$$\begin{array}{r} 9\boxed{5} \\ - 82 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 84 \\ - 3\boxed{5} \\ \hline \end{array}$$

d)
$$\begin{array}{r} 5\boxed{7} \\ - 24 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 54\boxed{7} \\ - 23 \\ \hline \end{array}$$

f)
$$\begin{array}{r} \boxed{5}28 \\ - 520 \\ \hline \end{array}$$

g)
$$\begin{array}{r} 3\boxed{5}\boxed{1} \\ - 241 \\ \hline \end{array}$$

h)
$$\begin{array}{r} 2\boxed{7}\boxed{1} \\ - 1\boxed{7}\boxed{1} \\ \hline \end{array}$$

2. Write the equation that is represented by the base-10 blocks. Explain how to subtract each equation.

a)	Number Sentence $84 - 35 = 49$
----	--

b)	Number Sentence $528 - 520 = 8$
----	---

3. Estimate by rounding each number to the nearest 10. Then calculate the actual difference.

a)
$$\begin{array}{r} 52 \\ - 22 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 66 \\ - 14 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 78 \\ - 56 \\ \hline \end{array}$$

4. Use 5 step method to solve:

a) The grade 2's had a race on Sports Day. Carlos finished the race in 86 seconds. Ryann finished the race in 52 seconds. How much faster did Ryann run?

Step 1 - $86 - 52$

Step 2 - $86 - 52 = 34$

Step 3 - 34

Step 4 - Carlos finished the race in 86 seconds. Ryann finished the race in 52 seconds. Carlos finished the race 34 seconds faster than Ryann.

Step 5 - 34

b) Fernando was searching for a used computer games. At Benny's Computer Store and he saw a game he liked for \$85 but would need to buy a new joy stick for \$57. Over at Horce's Games, he saw a game for \$56, but he would need to pay \$40 for a memory card. Which game store is cheaper and by how much?

Step 1 - $85 - 56 = 29$

Step 2 - $29 + 57 = 86$

Step 3 - 86

Step 4 - Benny's Computer Store is cheaper by \$86.

Step 5 - 86

1. Write the difference for each subtraction sentence.

a) $\begin{array}{r} 84 \\ - 7 \\ \hline 77 \end{array}$ b) $\begin{array}{r} 97 \\ - 59 \\ \hline 38 \end{array}$ c) $\begin{array}{r} 65 \\ - 36 \\ \hline 29 \end{array}$ d) $\begin{array}{r} 34 \\ - 27 \\ \hline 7 \end{array}$

e) $\begin{array}{r} 56 \\ - 38 \\ \hline 18 \end{array}$ f) $\begin{array}{r} 92 \\ - 58 \\ \hline 34 \end{array}$ g) $\begin{array}{r} 37 \\ - 28 \\ \hline 9 \end{array}$ h) $\begin{array}{r} 78 \\ - 19 \\ \hline 59 \end{array}$

2. Show each difference using base-10 blocks. Explain how to subtract each equation.

a) $\begin{array}{r} 85 \\ - 76 \\ \hline 9 \end{array}$ b) $\begin{array}{r} 92 \\ - 78 \\ \hline 14 \end{array}$

c) $\begin{array}{r} 44 \\ - 25 \\ \hline 19 \end{array}$ d) $\begin{array}{r} 51 \\ - 35 \\ \hline 16 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual difference.

a) $\begin{array}{r} 71 \\ - 23 \\ \hline 48 \end{array}$ b) $\begin{array}{r} 74 \\ - 46 \\ \hline 28 \end{array}$ c) $\begin{array}{r} 52 \\ - 16 \\ \hline 36 \end{array}$

4. Use 5 step method to solve:

a) Natasha went to the mall on Saturday and bought a shirt for \$75. Then she bought a jacket for \$29. How much more did the shirt cost than the jacket?

Step 1 - Numbers: $\begin{array}{r} 75 \\ - 29 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 75 \\ - 29 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 75 \\ - 29 \\ \hline 46 \end{array}$

Step 4 - Sentence: The shirt cost ^{\$}46 more than the jacket.

Step 5 - Check (Prove your answer - prove by adding)

b) Dakota has a book that is 93 pages long. So far he has read 49 pages. How many more pages does Dakota need to read to finish the book?

Step 1 - Numbers: $\begin{array}{r} 93 \\ - 49 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 93 \\ - 49 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 93 \\ - 49 \\ \hline 44 \end{array}$

Step 4 - Sentence: Dakota needs to read 44 more pages.

Step 5 - Check (Prove your answer)

1. Write the difference for each subtraction sentence.

a) $\begin{array}{r} 84 \\ - 7 \\ \hline 77 \end{array}$ b) $\begin{array}{r} 97 \\ - 59 \\ \hline 38 \end{array}$ c) $\begin{array}{r} 65 \\ - 36 \\ \hline 29 \end{array}$ d) $\begin{array}{r} 34 \\ - 27 \\ \hline 7 \end{array}$

e) $\begin{array}{r} 56 \\ - 38 \\ \hline 18 \end{array}$ f) $\begin{array}{r} 92 \\ - 58 \\ \hline 34 \end{array}$ g) $\begin{array}{r} 37 \\ - 28 \\ \hline 9 \end{array}$ h) $\begin{array}{r} 78 \\ - 19 \\ \hline 59 \end{array}$

2. Show each difference using base-10 blocks. Explain how to subtract each equation.

a) $\begin{array}{r} 85 \\ - 76 \\ \hline 9 \end{array}$ b) $\begin{array}{r} 92 \\ - 78 \\ \hline 14 \end{array}$

c) $\begin{array}{r} 42 \\ - 24 \\ \hline 18 \end{array}$ d) $\begin{array}{r} 51 \\ - 35 \\ \hline 16 \end{array}$

3. Estimate by rounding each number to the nearest 10. Then calculate the actual difference.

a) $\begin{array}{r} 91 \\ - 69 \\ \hline 22 \end{array}$ b) $\begin{array}{r} 92 \\ - 86 \\ \hline 6 \end{array}$ c) $\begin{array}{r} 31 \\ - 24 \\ \hline 7 \end{array}$

4. Use 5 step method to solve:

a) Natasha went to the mall on Saturday and bought a shirt for \$71. Then she bought a jacket for \$29. How much more did the shirt cost than the jacket?

Step 1 - Numbers: $\begin{array}{r} 71 \\ - 29 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 71 \\ - 29 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 71 \\ - 29 \\ \hline 42 \end{array}$

Step 4 - Sentence: Natasha spent \$42 more on the shirt.

Step 5 - Check (Prove your answer - prove by adding)

b) Dakota has a book that is 93 pages long. So far he has read 49 pages. How many more pages does Dakota need to read to finish the book?

Step 1 - Numbers: $\begin{array}{r} 93 \\ - 49 \\ \hline \end{array}$

Step 2 - Number Sentence: $\begin{array}{r} 93 \\ - 49 \\ \hline \end{array}$

Step 3 - Answer: $\begin{array}{r} 93 \\ - 49 \\ \hline 44 \end{array}$

Step 4 - Sentence: Dakota needs to read 44 more pages.

Step 5 - Check (Prove your answer)

Lesson 8- Subtraction With Regrouping
Worksheet C

1. Fill in the box with a number to make the subtraction sentence a regrouping problem. Calculate the difference then prove your answer by flipping the number sentence to add.

a)
$$\begin{array}{r} 69 \\ - 4\boxed{} \\ \hline \end{array}$$

b)
$$\begin{array}{r} 95 \\ - 8\boxed{} \\ \hline \end{array}$$

c)
$$\begin{array}{r} 5\boxed{} \\ - 27 \\ \hline \end{array}$$

d)
$$\begin{array}{r} \boxed{5}\boxed{3} \\ - \boxed{2}\boxed{7} \\ \hline \end{array}$$

2. Show each difference using base-10 blocks. Explain how to subtract each equation.

a)
$$\begin{array}{r} 85 \\ - 27 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 58 \\ - 29 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 42 \\ - 23 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 51 \\ - 35 \\ \hline \end{array}$$

3. Using the cards on the side, create a subtraction number sentence that shows subtraction with regrouping. Solve your sentence. You may use the cards more than once.

a)
$$\begin{array}{r} \\ - \\ \hline \end{array}$$

b)
$$\begin{array}{r} \\ - \\ \hline \end{array}$$

3	9	5
7	2	4

4. Use the problem solving process to solve:

a) Keenan bought a large bag of 98 jelly beans to share with his friends. Keenan's favorite color is red. 29 jelly beans were black, 23 jelly beans were pink, 8 jelly beans were green, 21 jelly beans were yellow. How many of Keenan's jelly beans were red?

Step 1 - $98 - 29 - 23 - 8 - 21 = 17$

Step 2 - $98 - 29 = 69$

Step 3 - $69 - 23 = 46$

Step 4 - $46 - 8 = 38$

Step 5 - $38 - 21 = 17$

b) Abe has a book that is 93 pages long. On Monday he read 38 pages and on Tuesday he read 14 pages. How many more pages does Abe need to read to finish the book?

Step 1 - $93 - 38 = 55$

Step 2 - $55 - 14 = 41$

Step 3 - 41

Step 4 - Abe needs to read 41 more pages.

Step 5 - 41

Lesson 8-Subtraction With Regrouping
Worksheet D

1. Fill in the box with a number to make the subtraction sentence a regrouping problem. Estimate the sum for each subtraction sentence by rounding. Then calculate the actual difference.

a)
$$\begin{array}{r} 69 \\ - 4\boxed{} \\ \hline \end{array}$$

b)
$$\begin{array}{r} 3\boxed{} \\ - 18 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 95 \\ - 8\boxed{} \\ \hline \end{array}$$

d)
$$\begin{array}{r} 8\boxed{} \\ - 26 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 5\boxed{} \\ - 27 \\ \hline \end{array}$$

f)
$$\begin{array}{r} \boxed{5}6 \\ - 57 \\ \hline \end{array}$$

g)
$$\begin{array}{r} 5\boxed{} \\ - 34 \\ \hline \end{array}$$

h)
$$\begin{array}{r} \boxed{5}\boxed{3} \\ - \boxed{2}\boxed{7} \\ \hline \end{array}$$

2. Show each difference using base-10 blocks. Explain how to subtract each equation.

a)
$$\begin{array}{r} 85 \\ - 27 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 58 \\ - 29 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 42 \\ - 23 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 51 \\ - 35 \\ \hline \end{array}$$

3. Using the cards on the side, create a subtraction number sentence that shows subtraction with regrouping. Solve your sentence. You may use the cards more than once.

a)
$$\begin{array}{r} \\ - \\ \hline \end{array}$$

b)
$$\begin{array}{r} \\ - \\ \hline \end{array}$$

3	9	5
7	2	4

4. Use the problem solving process to solve:

a) Keenan bought a large bag of 98 jelly beans to share with his friends. Keenan's favorite color is red. 29 jelly beans were black, 23 jelly beans were pink, 8 jelly beans were green, 21 jelly beans were yellow. How many of Keenan's jelly beans were red?

Step 1 - $98 - 29 - 23 - 8 - 21 = 17$

Step 2 - $98 - 29 = 69$

Step 3 - $69 - 23 = 46$

Step 4 - $46 - 8 = 38$

Step 5 - $38 - 21 = 17$

b) Abe has a book that is 93 pages long. On Monday he read 38 pages and on Tuesday he read 14 pages. How many more pages does Abe need to read to finish the book?

Step 1 - $93 - 38 = 55$

Step 2 - $55 - 14 = 41$

Step 3 - 41

Step 4 - Abe needs to read 41 more pages.

Step 5 - 41

Lesson 9- Subtracting With Zeros
Worksheet A

Name _____

Date _____

1. Estimate by rounding to the nearest ten, then solve.

$$\begin{array}{r} 20 \\ -13 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ -34 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ -41 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ -42 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ -46 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ -29 \\ \hline \end{array}$$

2. Draw a base-10 diagram to represent each equation. Solve for the difference.

$$\begin{array}{r} 50 \\ -32 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ -67 \\ \hline \end{array}$$

3. Check each of these equations to see if they are correct.

$$\begin{array}{r} 50 \\ -38 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 90 \\ -75 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 80 \\ -49 \\ \hline 41 \end{array}$$

4. Use the five-step method to solve the following.

a) Jaela had 60 stickers. She gave Brendan 47 stickers. How many stickers does Jaela have left?

Step 1 - Numbers: 60, 47

Step 2 - Number Sentence: $60 - 47 =$

Step 3 - Answer: 13

Step 4 - Sentence: Jaela has 13 stickers left.

Step 5 - Check (Prove your answer):

b) Darren has 40 hockey cards. He gave 9 cards to Leah. How many cards does Darren have now?

Step 1 - Numbers: 40, 9

Step 2 - Number Sentence: $40 - 9 =$

Step 3 - Answer: 31

Step 4 - Sentence: Darren now has 31 cards.

Step 5 - Check (Prove your answer):

Lesson 9- Subtracting With Zeros
Worksheet B

Name _____

Date _____

1. Estimate by rounding to the nearest ten, then solve.

$$\begin{array}{r} 20 \\ -13 \\ \hline \end{array}$$

$$\begin{array}{r} 50 \\ -34 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ -41 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ -43 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ -76 \\ \hline \end{array}$$

$$\begin{array}{r} 40 \\ -19 \\ \hline \end{array}$$

2. Draw a base-10 diagram to represent each equation. Solve for the difference.

$$\begin{array}{r} 50 \\ -32 \\ \hline \end{array}$$

$$\begin{array}{r} 90 \\ -67 \\ \hline \end{array}$$

3. Check each equation by using addition. If they are incorrect, prove what the correct answer is.

$$\begin{array}{r} 50 \\ -38 \\ \hline 20 \end{array}$$

$$\begin{array}{r} 90 \\ -75 \\ \hline 25 \end{array}$$

$$\begin{array}{r} 80 \\ -49 \\ \hline 41 \end{array}$$

4. Use the five-step method to solve the following.

a) Jaela had 200 stickers. She gave Brendan 47 stickers. How many stickers does Jaela have left?

Step 1 - Numbers: 200, 47

Step 2 - Number Sentence: $200 - 47 =$

Step 3 - Answer: 153

Step 4 - Sentence: Jaela has 153 stickers left.

Step 5 - Check (Prove your answer):

b) Darren has 41 hockey cards. He gave 3 cards to Leah and 10 cards to Kaylee. How many cards does Darren have now?

Step 1 - Numbers: 41, 3, 10

Step 2 - Number Sentence: $41 - 3 - 10 =$

Step 3 - Answer: 28

Step 4 - Sentence: Darren has 28 cards left.

Step 5 - Check (Prove your answer):

Lesson 9- Subtracting With Zeros
Worksheet C

1. Estimate by rounding to the nearest ten, then solve.

a)
$$\begin{array}{r} 20 \\ -13 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 50 \\ -34 \\ \hline \end{array}$$

c)
$$\begin{array}{r} 60 \\ -44 \\ \hline \end{array}$$

d)
$$\begin{array}{r} 60 \\ -43 \\ \hline \end{array}$$

e)
$$\begin{array}{r} 90 \\ -76 \\ \hline \end{array}$$

f)
$$\begin{array}{r} 40 \\ -19 \\ \hline \end{array}$$

2. Draw a base-10 diagram to represent each equation. Solve for the difference.

a)
$$\begin{array}{r} 50 \\ -32 \\ \hline \end{array}$$

b)
$$\begin{array}{r} 90 \\ -67 \\ \hline \end{array}$$

3. Tell what is wrong with each of these equations. Find the correct solution.

a)
$$\begin{array}{r} 50 \\ -38 \\ \hline 22 \end{array}$$

b)
$$\begin{array}{r} 90 \\ -75 \\ \hline 25 \end{array}$$

c)
$$\begin{array}{r} 80 \\ -49 \\ \hline 41 \end{array}$$

4. Use the five-step method to solve the following.

a) Jaela had 80 stickers. She gave Brendan 47 stickers and Kaylee 14 stickers. How many stickers does Jaela have left?

Step 1 - Numbers: $80 - 47 - 14$

Step 2 - Number Sentence: $80 - 47 - 14 = ?$

Step 3 - Answer: 19

Step 4 - Sentence: Jaela has 19 stickers left.

Step 5 - Check (Prove your answer): $19 + 47 + 14 = 80$

b) Darren has 409 hockey cards. He gave 12 cards to Leah, 60 cards to Brayden and 10 cards to Kaylee. How many cards does Darren have now?

Step 1 - Numbers: $409 - 12 - 60 - 10$

Step 2 - Number Sentence: $409 - 12 - 60 - 10 = ?$

Step 3 - Answer: 327

Step 4 - Sentence: Darren has 327 cards left.

Step 5 - Check (Prove your answer): $327 + 12 + 60 + 10 = 409$

Lesson 9- Subtracting With Zeros
Worksheet D

1. Fill in the box with a number. Estimate by rounding to the nearest ten, then solve.

a)
$$\begin{array}{r} 20 \\ -1\boxed{} \\ \hline \end{array}$$

b)
$$\begin{array}{r} 50 \\ -3\boxed{} \\ \hline \end{array}$$

c)
$$\begin{array}{r} 80 \\ -4\boxed{} \\ \hline \end{array}$$

d)
$$\begin{array}{r} 60 \\ -4\boxed{} \\ \hline \end{array}$$

e)
$$\begin{array}{r} 90 \\ -7\boxed{} \\ \hline \end{array}$$

f)
$$\begin{array}{r} 80 \\ -6\boxed{} \\ \hline \end{array}$$

2. Fill in the box and draw a base-10 diagram to represent each equation. Solve for the difference.

a)
$$\begin{array}{r} 50 \\ -3\boxed{} \\ \hline \end{array}$$

b)
$$\begin{array}{r} 90 \\ -6\boxed{} \\ \hline \end{array}$$

3. Tell what is wrong with each of these equations. Find the correct solution. Prove your solution by showing the addition.

a)
$$\begin{array}{r} 50 \\ -38 \\ \hline 22 \end{array}$$

b)
$$\begin{array}{r} 90 \\ -75 \\ \hline 25 \end{array}$$

c)
$$\begin{array}{r} 80 \\ -49 \\ \hline 41 \end{array}$$

4. Use the five-step method to solve the following.

a) Jaela had 80 stickers. She gave Brendan 47 stickers, 13 to Scott and 12 to Keenan. How many stickers does Jaela have left?

Step 1 - Numbers: $80 - 47 - 13 - 12$

Step 2 - Number Sentence: $80 - 47 - 13 - 12 = ?$

Step 3 - Answer: 9

Step 4 - Sentence: Jaela has 9 stickers left.

Step 5 - Check (Prove your answer): $9 + 47 + 13 + 12 = 80$

b) Darren has 49 hockey cards. He gave 12 cards to Leah, 6 cards to Brayden and 10 cards to Kaylee. How many cards does Darren have now?

Step 1 - Numbers: $49 - 12 - 6 - 10$

Step 2 - Number Sentence: $49 - 12 - 6 - 10 = ?$

Step 3 - Answer: 21

Step 4 - Sentence: Darren has 21 cards left.

Lesson 10 - Introduction to Multiplication

Worksheet A

1. Draw a picture to represent each of the following multiplication sentences. Find the product for each using your picture.

a) $3 \times 6 = 18$ 	b) $8 \times 2 = 16$ 	c) $7 \times 3 = 21$ 	d) $5 \times 6 = 30$
--------------------------	--------------------------	--------------------------	--------------------------

2. Write a multiplication sentence for each picture.

 $2 \times 4 = 8$	 $2 \times 4 = 8$	 $6 \times 3 = 18$
----------------------	----------------------	-----------------------

3. Draw the picture, write the multiplication sentence and write the addition sentence for each.

4 groups of 5 $4 \times 5 = 20$ $5 + 5 + 5 + 5 = 20$	3 groups of 7 $3 \times 7 = 21$ $7 + 7 + 7 = 21$	6 groups of 1 $6 \times 1 = 6$ $1 + 1 + 1 + 1 + 1 + 1 = 6$	5 groups of 0 $5 \times 0 = 0$ $0 + 0 + 0 + 0 + 0 = 0$
--	--	--	--

Lesson 10 - Introduction to Multiplication

Worksheet B

1. Draw a picture to represent each of the following multiplication sentences. Find the product for each using your picture.

a) $5 \times 4 = 20$ 	b) $4 \times 2 = 8$ 	c) $7 \times 7 = 49$ 	d) $6 \times 6 = 36$
--------------------------	-------------------------	--------------------------	--------------------------

2. Write a multiplication sentence for each picture.

 $2 \times 4 = 8$	 $2 \times 4 = 8$	 $6 \times 3 = 18$
----------------------	----------------------	-----------------------

3. Draw the picture, write the multiplication sentence and write the addition sentence for each.

4 groups of 5 $4 \times 5 = 20$ $5 + 5 + 5 + 5 = 20$	3 groups of 7 $3 \times 7 = 21$ $7 + 7 + 7 = 21$	6 groups of 1 $6 \times 1 = 6$ $1 + 1 + 1 + 1 + 1 + 1 = 6$	5 groups of 0 $5 \times 0 = 0$ $0 + 0 + 0 + 0 + 0 = 0$
--	--	--	--

Lesson 10 - Introduction to Multiplication

Worksheet C

1. Fill in the blank line with a number. Draw a picture to represent each of the following multiplication sentences. Find the product for each using your picture.

a) $\underline{3} \times 6 = 18$ 	b) $8 \times \underline{3} = 24$ 	c) $7 \times \underline{2} = 14$ 	d) $\underline{5} \times 5 = 25$
--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------

2. Write a multiplication sentence on the line and draw a picture for each.

 $2 \times 4 = 8$	 $3 \times 5 = 15$	 $4 \times 6 = 24$
----------------------	-----------------------	-----------------------

3. Fill in the blanks and draw the picture, write the multiplication sentence and write the addition sentence for each.

$\underline{4}$ groups of $\underline{4}$ $4 \times 4 = 16$	$\underline{5}$ groups of $\underline{3}$ $5 \times 3 = 15$	$\underline{6}$ groups of $\underline{2}$ $6 \times 2 = 12$	$\underline{7}$ groups of $\underline{1}$ $7 \times 1 = 7$
--	--	--	---

Lesson 10 - Introduction to Multiplication

Worksheet D

1. Fill in the blank line with a number. Draw a picture to represent each of the following multiplication sentences. Find the product for each using your picture.

a) $\underline{4} \times 6 = 24$ 	b) $8 \times \underline{3} = 24$ 	c) $7 \times \underline{2} = 14$ 	d) $\underline{5} \times 3 = 15$
--------------------------------------	--------------------------------------	--------------------------------------	--------------------------------------

2. Write a multiplication sentence on the line and draw a picture for each.

 $2 \times 4 = 8$	 $3 \times 5 = 15$	 $4 \times 6 = 24$
----------------------	-----------------------	-----------------------

3. Fill in the blanks and draw the picture, write the multiplication sentence and write the addition sentence for each.

$\underline{4}$ groups of $\underline{4}$ $4 \times 4 = 16$	$\underline{5}$ groups of $\underline{3}$ $5 \times 3 = 15$	$\underline{6}$ groups of $\underline{2}$ $6 \times 2 = 12$	$\underline{7}$ groups of $\underline{1}$ $7 \times 1 = 7$
--	--	--	---

Lesson 11 - Introduction to Division
Worksheet A

1. Draw a picture to represent each division statement.

a) $16 \div 8 = 2$ b) $21 \div 7 = 3$ c) $24 \div 6 = 4$

2. Fill in the blanks to complete each number family.

a) $15 \div 3 = 5$ b) $42 \div 7 = 6$ c) $20 \div 5 = 4$

$15 \div 5 = 3$ $42 \div 6 = 7$ $20 \div 4 = 5$

$3 \times 5 = 15$ $6 \times 7 = 42$ $4 \times 5 = 20$

$5 \times 3 = 15$ $7 \times 6 = 42$ $5 \times 4 = 20$

3. Divide the picture into equal groups and write the number sentence.

4. Use the 5 step method to solve:

a) Byron has 12 cookies. He wanted to share his cookies with himself and 3 friends. How many cookies will each person get?

$12 \div 4 = 3$
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Lesson 11- Introduction to Division
Worksheet B

1. Draw a picture to represent each division statement.

a) $30 \div 5 = 6$ b) $28 \div 7 = 4$ c) $48 \div 6 = 8$

2. Fill in the blanks to complete each number family. Draw a picture to help you.

a) $15 \div 3 = 5$ b) $42 \div 7 = 6$

$15 \div 5 = 3$ $42 \div 6 = 7$

$3 \times 5 = 15$ $6 \times 7 = 42$

$5 \times 3 = 15$ $7 \times 6 = 42$

3. Divide the picture into equal groups and write the number sentence.

4. Use the 5 step method to solve:

a) Byron has 24 cookies. He wanted to share his cookies with himself and 3 friends. How many cookies will each person get?

$24 \div 4 = 6$
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Lesson 11 - Introduction to Division
Worksheet C

1. Draw a picture to represent each division statement.

a) $36 \div 6 = 6$ b) $49 \div 7 = 7$ c) $48 \div 6 = 8$

2. Fill in the blanks to complete each number family. Draw a picture to help you.

a) $15 \div 3 = 5$ b) $42 \div 6 = 7$

$15 \div 5 = 3$ $42 \div 7 = 6$

$3 \times 5 = 15$ $6 \times 7 = 42$

$5 \times 3 = 15$ $7 \times 6 = 42$

3. Divide the picture into equal groups and write the number sentence.

4. Use the 5 step method to solve:

a) Byron has 32 cookies. Does he have enough to give himself and 6 friends an equal share? Explain.

$32 \div 7 = 4 \text{ R } 4$
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Lesson 11 - Introduction to Division
Worksheet D

1. Draw a picture to represent each division statement.

a) $35 \div 5 = 7$ b) $49 \div 7 = 7$ c) $48 \div 8 = 6$

2. Fill in the blanks to create number family. Draw a picture to help you.

a) $15 \div 3 = 5$ b) $42 \div 6 = 7$

$15 \div 5 = 3$ $42 \div 7 = 6$

$3 \times 5 = 15$ $6 \times 7 = 42$

$5 \times 3 = 15$ $7 \times 6 = 42$

3. Divide the picture into equal groups and write the number sentence.

4. Use the 5 step method to solve:

a) Byron has 32 cookies. Does he have enough to give himself and 6 friends an equal share? Explain.

$32 \div 7 = 4 \text{ R } 4$
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Assessment A

Number Operations


1. Write the missing addend or sum to prove each equation.

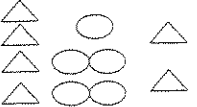
- a) $5 + 5 = 10$ b) $0 + 0 = 0$ c) $4 + 4 = 8$
 d) $5 + \underline{\quad} = 10$ e) $2 + \underline{\quad} = 4$ f) $1 + \underline{\quad} = 2$

2. Describe how knowing that $5 + 5 = 10$ could help you quickly add $5 + 6$.

We are adding 1 more to 10.

3. Write the related facts for each picture.

a)  $3 + 2 = 5$
 $2 + 3 = 5$
 $5 - 2 = 3$
 $5 - 3 = 2$

b)  $3 + 2 = 5$
 $2 + 3 = 5$
 $5 - 2 = 3$
 $5 - 3 = 2$

4. Find the difference for each fact.

- a) $7 - 4 = 3$ b) $10 - 6 = 4$ c) $8 - 4 = 4$
 d) $5 - 2 = 3$ e) $7 - 4 = 3$ f) $9 - 9 = 0$

5. Solve the difference for each number sentence and write the family facts.

a) $10 - 7 = 3$ b) $6 - 2 = 4$
 $10 - 7 = 3$ $6 - 2 = 4$
 $7 + 3 = 10$ $2 + 4 = 6$
 $3 + 7 = 10$ $4 + 2 = 6$

6. Write the sum for each addition sentence.

a) $24 + 34 = 58$ b) $17 + 82 = 99$ c) $34 + 35 = 69$ d) $42 + 24 = 66$

7. Show each sum using base-10 blocks. Explain how to add each equation

a) $35 + 24 = 59$ b) $28 + 12 = 40$

8. Show each sum using base-10 blocks. Explain how to add each equation.

a) $35 + 76 = 111$ b) $28 + 78 = 106$

9. Using the cards on the side, create an addition number sentence that shows addition with regrouping. You can use the cards more than once. Solve your sentence.

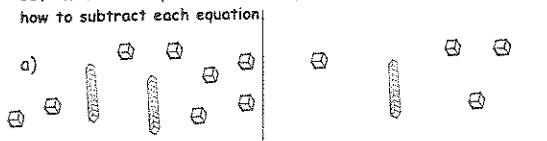
a) $14 + 8 = 22$ b) $7 + 6 = 13$

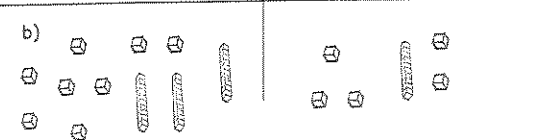
Number Sentence: $14 + 8 = 22$

10. Write the difference for each subtraction sentence.

- a) $84 - 53 = 31$ b) $87 - 42 = 45$ c) $39 - 34 = 5$

11. Write the equation that is represented by the base-10 blocks. Explain how to subtract each equation

a)  Number Sentence: $23 - 12 = 11$

b)  Number Sentence: $35 - 12 = 23$

12. Write the difference for each subtraction sentence.

- a) $84 - 7 = 77$ b) $97 - 59 = 38$ c) $65 - 36 = 29$

13. Show each sum using base-10 blocks. Explain how to subtract each equation

a) $85 - 27 = 58$ b) $58 - 29 = 29$

14. Draw a base-10 diagram to represent each equation. Solve for the difference.

a) $50 - 32 = 18$ b) $90 - 67 = 23$

15. Draw a picture to represent each of the following multiplication sentences. Find the product for each using your picture.

a) $3 \times 6 = 18$ b) $8 \times 2 = 16$ c) $7 \times 3 = 21$ d) $5 \times 6 = 30$

Assessment B

16. Fill in the blanks to complete each number family.

a) $15 \div 3 = 5$

b) $42 \div 7 = 6$

$15 \div 5 = 3$

$42 \div 6 = 7$

$3 \times 5 = 15$

$6 \times 7 = 42$

$5 \times 3 = 15$

$7 \times 6 = 42$

17. Harlon won 25 tickets to the movie theater by competing in a radio contest. He already bought 13 tickets for all of his friends. How many tickets does Harlon have now?

25 + 13 = 38
Harlon has 38 tickets now.

18. Tyrone had 46 stickers. Anna has 33 stickers. How many more stickers does Tyrone have?

46 - 33 = 13
Tyrone has 13 more stickers than Anna.

19. Byron has 12 cookies. He wanted to share his cookies with himself and 3 friends. How many cookies will each person get?

12 \div 4 = 3
Each person will get 3 cookies.

Number Operations

1. Write the addition sentence for each of the sums.

a) $18 = 9 + 9$

b) $14 = 7 + 7$

c) $12 = 6 + 6$

2. Draw a picture to represent each fact. Write the related fact.

a) $3 + \underline{\quad} = 10$

$7 + \underline{\quad} = \underline{\quad}$

3. Look at the cards and write the family of facts.

10	6	4
----	---	---

9	8	1
---	---	---

9	2	7
---	---	---

a) $10 - 6 = 4$

b) $9 - 8 = 1$

c) $9 - 2 = 7$

$4 + 6 = 10$

$1 + 8 = 9$

$7 + 2 = 9$

$6 + 4 = 10$

$8 + 1 = 9$

$2 + 7 = 9$

$10 - 4 = 6$

$9 - 1 = 8$

$9 - 7 = 2$

$4 + 6 = 10$

$8 + 1 = 9$

$2 + 7 = 9$

4. Fill in a number to create an addition sentence with no regrouping. Find the sum of the equation you created.

a) $\begin{array}{r} 24 \\ + 31 \\ \hline 55 \end{array}$

b) $\begin{array}{r} \square 1 \\ + 82 \\ \hline 93 \end{array}$

c) $\begin{array}{r} 34 \\ + \square 3 \\ \hline 57 \end{array}$

5. Using the cards on the side, create an addition number sentence that shows addition with regrouping. Solve your sentence. You may use the cards more than once.

a) $\begin{array}{r} 16 \\ + 7 \\ \hline 23 \end{array}$

b) $\begin{array}{r} 16 \\ + 6 \\ \hline 22 \end{array}$

8	9	5
7	6	4

6. Show each difference using base-10 blocks. Explain how to subtract each equation.

a) $\begin{array}{r} 35 \\ - 24 \\ \hline 11 \end{array}$

b) $\begin{array}{r} 28 \\ - 12 \\ \hline 16 \end{array}$

7. Fill in the box with a number to make the subtraction sentence a regrouping problem. Estimate the sum for each subtraction sentence by rounding. Then calculate the actual difference.

a) $\begin{array}{r} 56 \\ - 4\square \\ \hline 19 \end{array}$

b) $\begin{array}{r} \square 13 \\ - 18 \\ \hline 15 \end{array}$

c) $\begin{array}{r} 95 \\ - \square 8 \\ \hline 17 \end{array}$

8. Fill in the box and draw a base-10 diagram to represent each equation. Solve for the difference.

a) $\begin{array}{r} 510 \\ - 3\square \\ \hline 17 \end{array}$

b) $\begin{array}{r} 90 \\ - 6\square \\ \hline 25 \end{array}$

9. Fill in the blanks and draw the picture, write the multiplication sentence and write the addition sentence for each.

5 groups of 3 	___ groups of ___	___ groups of ___	___ groups of ___
3 groups of 5 	___ groups of ___	___ groups of ___	___ groups of ___

10. Draw a picture to represent each division statement.

a) $35 \div 5 = 7$

b) $49 \div 7 = 7$

c) $48 \div 8 = 6$



11. There are three grade 2 classes at West Park Elementary. 2A has 26 students, 2B has 28 students and 2C has 25 students. How many students are in grade 2 at West Park Elementary?

1. $26 + 28 + 25$

2. $26 + 28$

3. $26 + 25$

4. $26 + 28 + 25$

5. - correct

9. There are 70 cards in a deck.

12. Abe has a book that is 93 pages long. On Monday he read 38 pages and on Tuesday he read 14 pages. How many more pages does Abe need to read to finish the book?

1. $93 - 38 - 14$

2. $93 - 14 - 38$

3. $93 - 38 + 14$

4. $93 - 14 + 38$

5. - Any number is made up of two parts

6. $93 - 38 - 14$

13. Byron has 32 cookies to share. How many cookies will each person get if Byron separates the cookies 8 ways?

1. $32 \div 8$

2. $32 \times 8 = 256$

3. 32

4. - $2 \times 16 = 32$ or $4 \times 8 = 32$