

Dear Parents:

We are pleased to provide a biblically centered, comprehensive math program that will equip your child with essential math skills. Chapters are integrated with Christian principles and present applications for Christlike character.

Mathematical skills are taught in a balanced approach of computation and problem-solving applications. Frequent practice with math facts is foundational to mathematical knowledge. Higher-order thinking skills are addressed through the introduction of problem-solving strategies. These strategies are reinforced and extended in later grades to develop mathematical thinking.

New math concepts are introduced with the use of manipulatives for a hands-on approach to learning. Through practice and interactive discussion with the teacher, the student gradually progresses to an abstract level of thinking. At the abstract level the student can successfully solve problems without using manipulatives or pictures. Math concepts needing to be mastered are reviewed periodically for reinforcement and retention. Daily classroom review provides a 5–10 minute practice of previously learned skills. Chapter Reviews and Cumulative Reviews, along with review sections on Worktext pages, provide opportunity for independent review. Supplemental problem-solving pages are included to challenge your child to use critical thinking skills to solve problems.

Enjoyment of math is one of the goals for your child in this program. Children who enjoy math and learn its relationship to real-life experiences are less likely to feel intimidated by more difficult skills. In each chapter your child will see everyday math skills being used by Matt O'Malley, a construction worker, and his pet beaver, Paddy, as they share the adventures they have while helping to build a variety of buildings for people around the world. Your child's teacher will provide creative activities to enhance basic skills. As a parent, you can encourage the enjoyment of math by sharing ways math concepts are used in your family's daily life.





To the Parent

Your child will study strategies and principles of addition in Chapter 1. These will help him better understand addition and memorize the addition facts to 18.

Count On 1—Start with the larger addend and count up 1 (for $6 + 1$, count 6, 7).

Count On 2—Start with the larger addend and count up 2 (for $6 + 2$, count 6, 7, 8).

Doubles—Notice both addends are the same ($4 + 4 = 8$).

Near Doubles—Think of the double fact for the smaller addend, and then add 1 (for $6 + 7$, think $6 + 6 = 12$, $12 + 1 = 13$).

Zero Principle of Addition—When 0 is an addend, the sum is the same as the other addend ($3 + 0 = 3$).

Order Principle of Addition—The order of the addends can be changed without changing the sum ($2 + 4 = 6$, $4 + 2 = 6$).

Matt and Paddy

Matt and his pet beaver Paddy are preparing to leave Ohio to help build houses. Their journeys will take them all around the world. They are saying goodbye to their friends as they pack tools and supplies for their trip.

Math in the Home

Daily life offers many opportunities to practice your child's math skills. Make word problems a part of your daily conversation. For example, ask, "You have 6 markers and your friend has 5 markers. If you share your markers, how many do you have in all?" or "We are bringing a package with 8 hot dog buns to the cookout. The Parker family is bringing a package with 8 hot dog buns. How many hot dog buns will we have in all?"

This list shows the facts your child will be memorizing during this chapter. Provide opportunities for your child to practice these facts by using flashcards, by calling out facts orally, or by playing games.

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

$1 + 2$ $1 + 3$ $1 + 4$ $1 + 5$ $1 + 6$ $1 + 7$ $1 + 8$ $1 + 9$
 $2 + 1$ $3 + 1$ $4 + 1$ $5 + 1$ $6 + 1$ $7 + 1$ $8 + 1$ $9 + 1$

$2 + 3$ $2 + 4$ $2 + 5$ $2 + 6$ $2 + 7$ $2 + 8$ $2 + 9$
 $3 + 2$ $4 + 2$ $5 + 2$ $6 + 2$ $7 + 2$ $8 + 2$ $9 + 2$

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

Zero Principle; Count On 1 or 2

Name _____

Chapter

1



$$3 + 0 = 3$$

addend addend sum

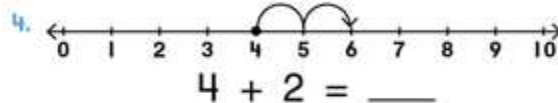
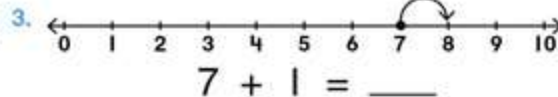
Zero Principle of Addition
When zero is an addend, the sum is the same as the other addend.



Add.

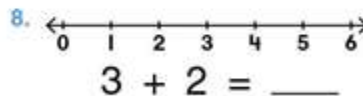
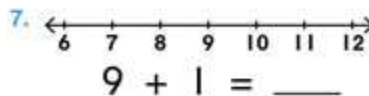
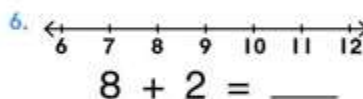
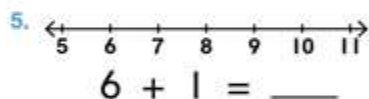
1. $5 + 0 = \underline{\quad}$ $0 + 9 = \underline{\quad}$ $8 + 0 = \underline{\quad}$

2. $7 + 0 = \underline{\quad}$ $0 + 6 = \underline{\quad}$ $4 + 0 = \underline{\quad}$



Use the number line to add.

Draw to find the sum.

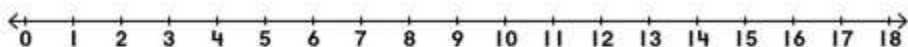


Circle the addends. Draw a square around the sum.

1. $7 + 2 = 9$

$3 + 4 = 7$

$6 + 5 = 11$



Add. Use the number line.

2.

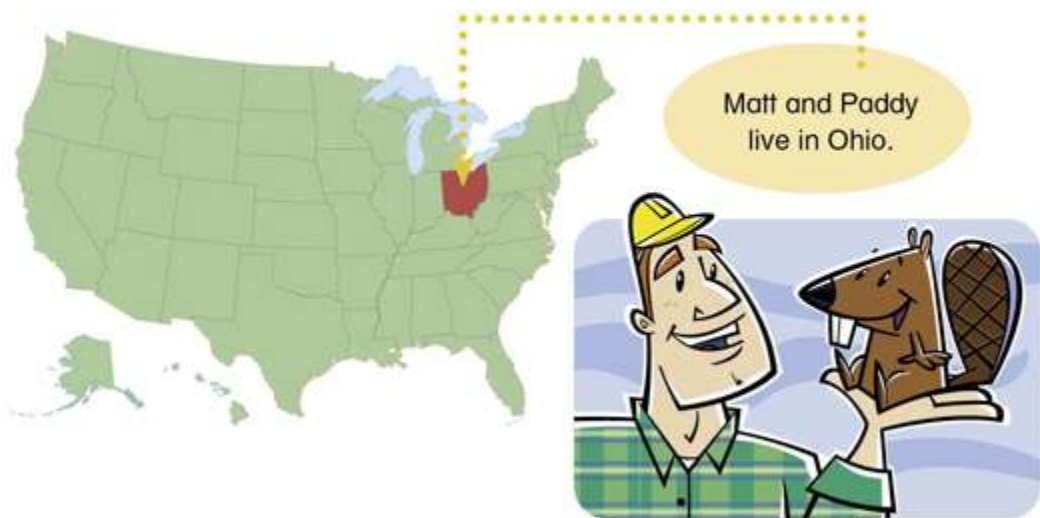
Add 0
$3 + 0 = \underline{\quad}$
$8 + 0 = \underline{\quad}$
$2 + 0 = \underline{\quad}$
$6 + 0 = \underline{\quad}$
$9 + 0 = \underline{\quad}$

3.

Count On 1
$4 + 1 = \underline{\quad}$
$6 + 1 = \underline{\quad}$
$9 + 1 = \underline{\quad}$
$5 + 1 = \underline{\quad}$
$7 + 1 = \underline{\quad}$

4.

Count On 2
$5 + 2 = \underline{\quad}$
$6 + 2 = \underline{\quad}$
$7 + 2 = \underline{\quad}$
$9 + 2 = \underline{\quad}$
$8 + 2 = \underline{\quad}$



© 2007 BJU Press. Reproduction prohibited.

Add to 5; Order Principle

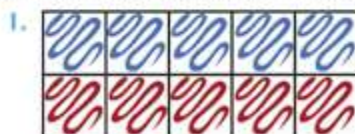
Name _____

Pre-Algebra

Ten Frame



Color the spaces for the first addend *blue* and the spaces for the second addend *red*. Count on from 5. Write the sum.



$$5 + 7 = \underline{\quad}$$

2.

$$5 + 5 = \underline{\quad}$$

3.

$$5 + 3 = \underline{\quad}$$

4.

$$5 + 6 = \underline{\quad}$$

Order Principle of Addition

The order of the addends can be changed without changing the sum.

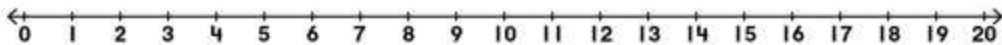
$$1 + 5 = 6 \quad 5 + 1 = 6$$

Add.

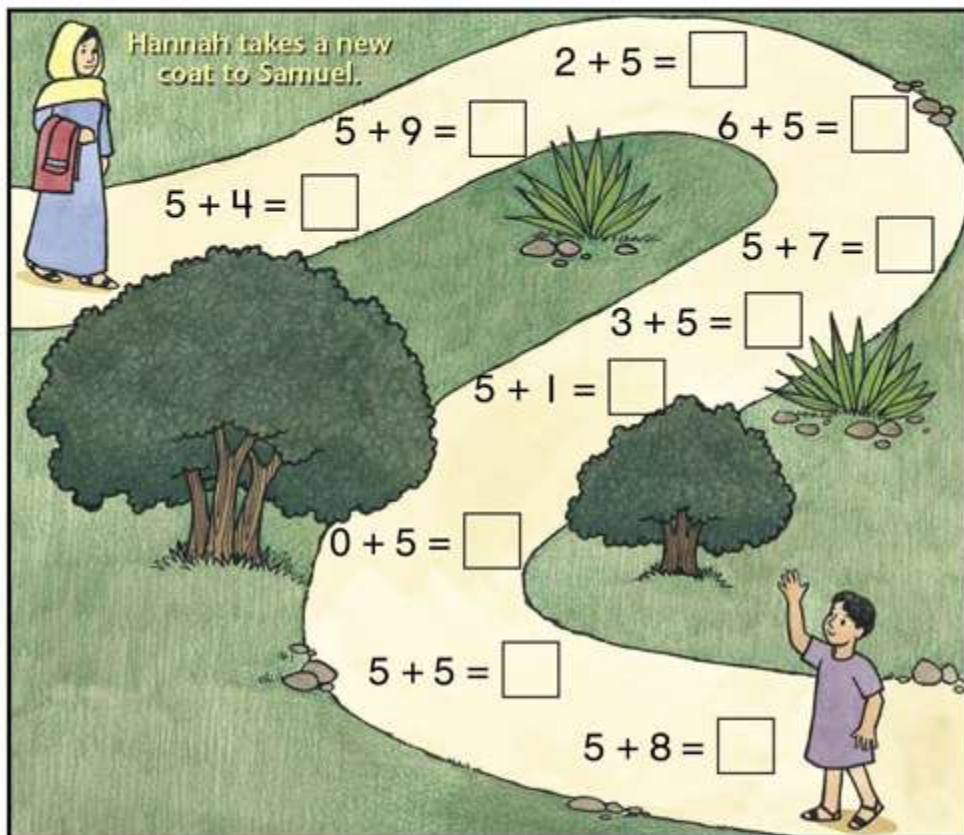
5.
$$\begin{array}{r} 5 \\ + 2 \\ \hline \end{array} \quad \begin{array}{r} 2 \\ + 5 \\ \hline \end{array}$$

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

7.
$$\begin{array}{r} 5 \\ + 8 \\ \hline \end{array} \quad \begin{array}{r} 8 \\ + 5 \\ \hline \end{array}$$



Add to help Hannah find her way.



Write an equation for the word problem. Solve.

- Samuel heard God call to him 3 times and ran to Eli. God called Samuel 1 more time and Samuel listened to God. How many times did God call to Samuel?

___ ○ ___ ○ ___ times

Review: Zero Principle

Add.

$$\begin{array}{r}
 2. \quad 6 \\
 + 0 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 0 \\
 + 3 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 9 \\
 + 0 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 7 \\
 + 0 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 0 \\
 + 4 \\
 \hline
 \end{array}
 \quad
 \begin{array}{r}
 2 \\
 + 0 \\
 \hline
 \end{array}$$

Add Doubles; Bar Graph

Name _____

Double Facts

Find the sum by joining two sets with the same number of objects in each set.



Add.

1.
$$\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$$

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

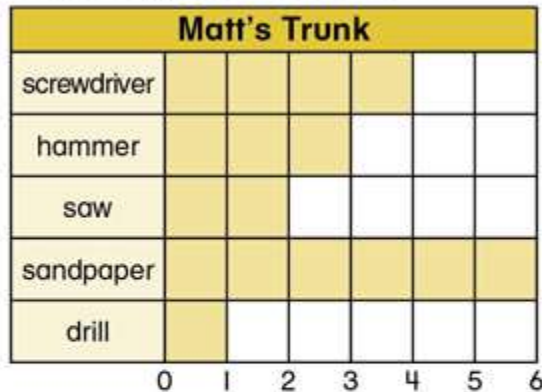
3.
$$7 + 7 = \underline{\quad}$$



Bible Truth

Rev. 4:11
Gen. 1:21
God has created each creature for His pleasure.

Use the bar graph to find the answers.



4. How many pieces of sandpaper did Matt pack?

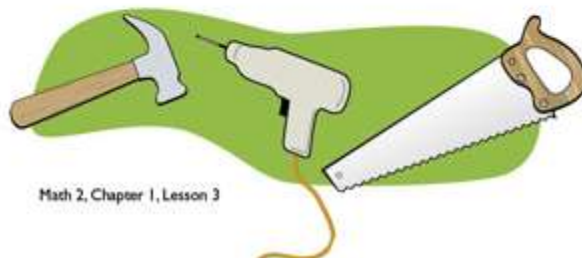
5. How many hammers did Matt pack?

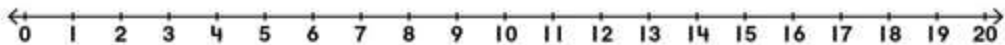
6. Write an equation to find out how many screwdrivers and saws Matt packed altogether.

___ ○ ___ ○ ___ tools

7. Write an equation to find out how many pieces of sandpaper and hammers Matt packed altogether.

___ ○ ___ ○ ___ tools





Add. Use the number line.

1. $\begin{array}{r} 2 \\ + 2 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$ $\begin{array}{r} 6 \\ + 6 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ + 3 \\ \hline \end{array}$ $\begin{array}{r} 0 \\ + 0 \\ \hline \end{array}$

2. $\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$ $\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$ $\begin{array}{r} 5 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ + 4 \\ \hline \end{array}$



Write an equation for each word problem. Solve.

3. The beavers put 4 logs on the lodge. Later they put 4 more logs on the lodge. How many logs did they put on the lodge?

___ ○ ___ ○ ___ logs

4. There were 6 beavers swimming in the water. Then 6 more beavers jumped into the water. How many beavers are now swimming in the water?

___ ○ ___ ○ ___ beavers

Review: *Count On 1*

Add.

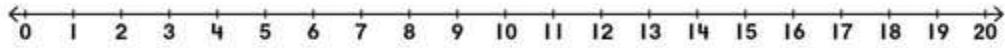
5. $\begin{array}{r} 6 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 1 \\ + 4 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 3 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ + 1 \\ \hline \end{array}$

6. $\begin{array}{r} 1 \\ + 2 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 1 \\ + 0 \\ \hline \end{array}$ $\begin{array}{r} 5 \\ + 1 \\ \hline \end{array}$ $\begin{array}{r} 1 \\ + 1 \\ \hline \end{array}$

© 2007 BJU Press. Reproduction prohibited.

Chapter Review

Name _____



Add.

1. **Add 0**

$$5 + 0 = \underline{\quad}$$

$$8 + 0 = \underline{\quad}$$

2. **Count On 1**

$$9 + 1 = \underline{\quad}$$

$$6 + 1 = \underline{\quad}$$

3. **Count On 2**

$$7 + 2 = \underline{\quad}$$

$$4 + 2 = \underline{\quad}$$

4. **Add Doubles**

$$4 + 4 = \underline{\quad}$$

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

5. **Add Near Doubles**

$$6 + 7 = \underline{\quad}$$

$$8 + 9 = \underline{\quad}$$

6. **Add to 5**

$$5 + 4 = \underline{\quad}$$

$$5 + 8 = \underline{\quad}$$

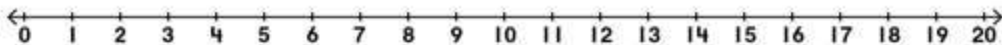
© 2007 BJU Press. Reproduction prohibited.

Read the bar graph.
Write an equation for the word problem.
Solve.



7. The second grade class is selling candy bars. How many candy bars did Gina and Mary sell altogether?

_____ ○ _____ ○ _____ candy bars



Circle the addends.
Draw a square around the sum.

8. $8 + 3 = 11$

9. $9 + 5 = 14$



Add.
Circle the double facts.

10. $\begin{array}{r} 7 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 8 \\ + 8 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ + 9 \\ \hline \end{array}$ $\begin{array}{r} 9 \\ + 4 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ + 8 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ + 7 \\ \hline \end{array}$

Use the Order Principle to rewrite each problem.
Solve.

11. $\begin{array}{r} 9 \\ + 6 \\ \hline \end{array}$ $\begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array}$

12. $\begin{array}{r} 2 \\ + 8 \\ \hline \end{array}$ $\begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array}$

13. $\begin{array}{r} 5 \\ + 7 \\ \hline \end{array}$ $\begin{array}{|c|} \hline \square \\ \hline \square \\ \hline \end{array}$

Color the spaces on the Ten Bar for the first addend. Count the remaining spaces to find the missing addend. Complete the equation.

14.

--	--	--	--	--	--	--	--	--	--

 $4 + \underline{\quad} = 10$

Use the Grouping Principle and addition strategies to add.

15. $\begin{array}{r} 6 \\ 2 \\ + 3 \\ \hline \end{array}$ $\begin{array}{r} 4 \\ 4 \\ + 5 \\ \hline \end{array}$ $\begin{array}{r} 7 \\ 1 \\ + 6 \\ \hline \end{array}$

First Grade Review

Name _____

Count by 10s. Start at the star and connect the dots.

Draw a line to match the number to the number word.

1.

0	two
1	four
2	one
3	zero
4	three

2.

5	six
6	eight
7	five
8	nine
9	seven

3.

10	twelve
11	ten
12	thirteen
13	fourteen
14	eleven

4.

15	seventeen
16	eighteen
17	sixteen
18	nineteen
19	fifteen

© 2007 BJU Press. Reproduction prohibited.