

California Content Standards — Grade 2

By the end of grade two, students understand place value and number relationships in addition and subtraction, and they use simple concepts of multiplication. They measure quantities with appropriate units. They classify shapes and see relationships among them by paying attention to their geometric attributes. They collect and analyze data and verify the answers.

Number Sense

- 2.0** Students estimate, calculate, and solve problems involving addition and subtraction of two- and three- digit numbers:
- 2.1** Understand and use the inverse relationship between addition and subtraction (e.g., an opposite number sentence for $8+6 = 14$ is $14- 6 = 8$) to solve problems and check solutions.

Math Language:

You need to learn:

Fact family,

Inverse,

opposite,

check,

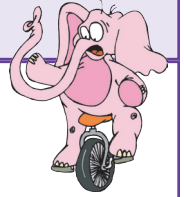
addition,

subtraction.

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Student Exercise:



With these numbers you can work out the answers to the following:

$$6 + 8 = 14$$

$$8 + 6 = 14$$

$$14 - 6 = 8$$

$$14 - 8 = 6$$

Use colored cubes to show the relationships between these numbers

$$6 + 8 = 14$$

$$8 + 6 = 14$$

$$14 - 6 = 8$$

$$14 - 8 = 6$$

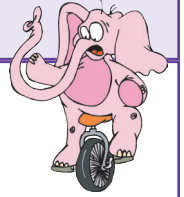
$$14 - 6 = 8$$

$$14 - 8 = 6$$

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Student Exercise:



Write some number sentences for the following fact families:

7, 5, 12

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

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

$$\square - \square = \square$$

$$\square - \square = \square$$

8, 5, 13

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

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

$$\square - \square = \square$$

$$\square - \square = \square$$

Examples:

$$17 + 2 = 19$$

$$2 + 17 = 19$$

$$19 - 2 = 17$$

$$19 - 17 = 2$$

$$5 + 48 = 53$$

$$48 + 5 = 53$$

$$53 - 5 = 48$$

$$53 - 48 = 5$$

Now do these:

$$14 + 7 = \square$$

$$7 + \square = 21$$

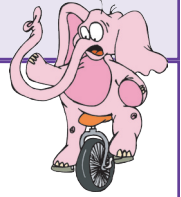
$$21 - 7 = \square$$

$$21 - 14 = \square$$

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Student Exercise:



Write some number sentences for these fact families.

42, 1, 43

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

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

$$\square - \square = \square$$

$$\square - \square = \square$$

63, 7, 56

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

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

$$\square - \square = \square$$

$$\square - \square = \square$$

Now try these:

$$25 + 3 = \square$$

$$3 + \square = 28$$

$$28 - 3 = \square$$

$$28 - 25 = \square$$

$$34 + 9 = \square$$

$$9 + \square = 43$$

$$43 - 9 = \square$$

$$3 - 34 = \square$$

$$55 + 10 = \square$$

$$10 + \square = 65$$

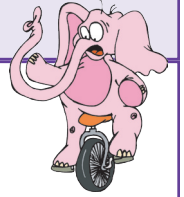
$$65 - 10 = \square$$

$$66 - 55 = \square$$

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Student Exercise:



Solve these problems. Circle the right answer

Ian completed the following problems, which inverse problem shows he got the right answer for each sum.

$$\begin{array}{r} 65 \\ -29 \\ \hline 36 \end{array}$$

$$\begin{array}{r} 29 \\ +36 \\ \hline \end{array}$$

A

$$\begin{array}{r} 29 \\ +39 \\ \hline \end{array}$$

B

$$\begin{array}{r} 65 \\ +39 \\ \hline \end{array}$$

C

$$\begin{array}{r} 65 \\ +29 \\ \hline \end{array}$$

D

$$\begin{array}{r} 80 \\ -57 \\ \hline 23 \end{array}$$

$$\begin{array}{r} 80 \\ +57 \\ \hline \end{array}$$

A

$$\begin{array}{r} 57 \\ +80 \\ \hline \end{array}$$

B

$$\begin{array}{r} 23 \\ +57 \\ \hline \end{array}$$

C

$$\begin{array}{r} 23 \\ +80 \\ \hline \end{array}$$

D

$$\begin{array}{r} 35 \\ +53 \\ \hline 88 \end{array}$$

$$\begin{array}{r} 88 \\ -55 \\ \hline \end{array}$$

A

$$\begin{array}{r} 53 \\ -55 \\ \hline \end{array}$$

B

$$\begin{array}{r} 55 \\ -53 \\ \hline \end{array}$$

C

$$\begin{array}{r} 88 \\ -35 \\ \hline \end{array}$$

D

$$\begin{array}{r} 12 \\ +26 \\ \hline 38 \end{array}$$

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

A

$$\begin{array}{r} 38 \\ -16 \\ \hline \end{array}$$

B

$$\begin{array}{r} 38 \\ -26 \\ \hline \end{array}$$

C

$$\begin{array}{r} 26 \\ -38 \\ \hline \end{array}$$

D

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In the Home:

It is important that children learn the number facts for ten by heart:

$0 + 10,$

$10 + 0,$

$1 + 9,$

$9 + 1,$

$2 + 8,$

$8 + 2,$

$3 + 7,$

$7 + 3,$

$4 + 6,$

$6 + 4,$

$5 + 5$

