

Dimensions Math

Grade 1 Letter Home #13

Chapter 13 Addition and Subtraction Within 40

Dimensions Math
Letters Home

Home Connection

This is the chapter where all the practice your child has had with adding and subtracting within 20 starts to pay off. In **Dimensions Math® 1A**, your child learned to add and subtract by:

Making a ten

$7 + 8$
3 5 or 5 2
 $7 + 3 = 10$ $8 + 2 = 10$
 $10 + 5 = 15$ $10 + 5 = 15$

Subtracting from a ten

$13 - 9$
10 3
 $10 - 9 = 1$
 $1 + 3 = 4$

Decomposing the second number and subtracting twice

$12 - 5$
2 3
 $12 - 2 = 10$
 $10 - 3 = 7$



In this chapter, your child will use these strategies to add and subtract numbers within 40.

First, she will just add and subtract the ones:

$23 + 5$
20 3
 $3 + 5 = 8$
 $20 + 8 = 28$

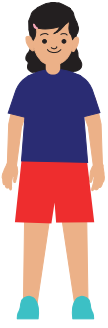

$27 - 4$
20 7
 $7 - 4 = 3$
 $20 + 3 = 23$

Next, she will add by making the next ten... and using known addition facts:

<div style="border: 1px solid #ccc; padding: 10px; background-color: #f0f0f0;"> $28 + 5$ <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">2</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">3</div> </div> $28 + 2 = 30$ $30 + 3 = 33$ </div> 	<div style="border: 1px solid #ccc; padding: 10px; background-color: #f0f0f0;"> $28 + 5$ <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">20</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">8</div> </div> $8 + 5 = 13$ $20 + 13 = 33$ </div> 
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Finally, your child will subtract by subtracting from the tens...

and using known subtraction facts:

<div style="border: 1px solid #ccc; padding: 10px; background-color: #f0f0f0;"> $22 - 7$ <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">2</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">20</div> </div> $20 - 7 = 13$ $13 + 2 = 15$ </div> 	<div style="border: 1px solid #ccc; padding: 10px; background-color: #f0f0f0;"> $22 - 7$ <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">10</div> <div style="border: 1px solid black; border-radius: 50%; width: 40px; height: 40px; display: flex; align-items: center; justify-content: center;">12</div> </div> $12 - 7 = 5$ $10 + 5 = 15$ </div> 
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Your child will also add 3 one-digit numbers together, using any strategy learned.

This can be a challenging chapter for many students. Your child will be using ten-frames and cubes to learn and practice these strategies in the classroom and will continue to practice these strategies by adding and subtracting numbers to 100 in Chapter 17.

What can we do at home?

- Continue to use flash cards and games to practice addition and subtraction within 20 until your child can recall a fact within 3-5 seconds.
- Play 40 or Bust. Players take turns rolling a die. On each turn, the number rolled is added to the prior number to make a new total. The game continues until a player adds to 40 exactly. If a roll takes a total over 40, that player “goes bust” and is out. Modify the game for subtraction: 0 or Bust. Begin with 40 and subtract the number rolled on each turn.