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guide

**Ten frames**

**15+27=42**

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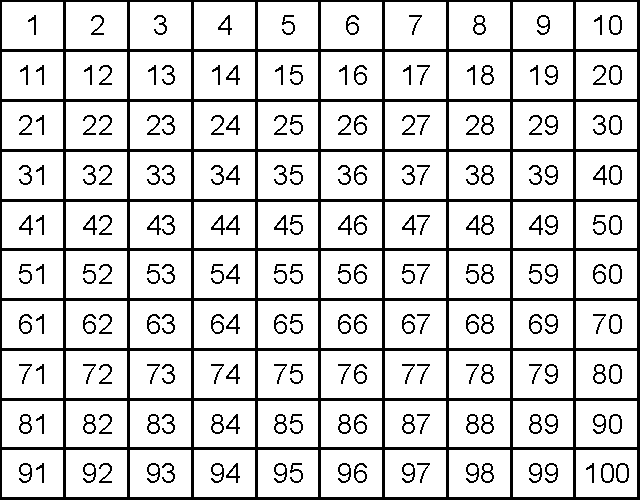
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Cover the tens frames with one number and then the other number. Count how many tens and ones there are.

Student explanation: “First I colored one ten frame and five singles. Then I colored two tens frames and seven singles. Altogether I have four tens and two singles shaded. My answer is 42.”

**Hundreds chart**

 **21+77=98**

Start at the greater number. Move down to add ten and move to the right to add ones. If you come to the end of a row, continue in the next row. Do not count by ones only!

Student explanation: “I started with the greater number, 77. I moved down twice for the two tens and then to the right one space for the one one. I landed on 98.”

**Base ten pieces**

**15+27=42**

Draw each number using base ten pieces. If you can, group the units into ten. Count how many tens and units.

Student explanation: “I drew 15 and 27 using base ten pieces. I could group the units so that I had a group of ten and then two units leftover. I now have four tens and two units. My answer is 42.”

**Number line**

**21+77=98**

+1

+10

+10

77

98

97

87

Start with the greater number and use ten, five, and one hops to add on the other number.

Student explanation: “I started with the greater number, 77. I made two ten hops for the 20 and then one one hop for the 1. I landed on 98.”

**Expanded form (tens and ones)**

**15+27=42**

Tens Ones Tens + Ones

10+20=30 5+7=12 30+12=42

Add the tens place of both numbers together and then repeat with the ones. Then add those two numbers together.

Student explanation: “I started by adding the tens place 10+20=30 and then I added the ones place 5+7=12. When I added 30+12 I had four tens and two ones. My answer is 42.”