

Student Guide - Page 126
3. Frank is in Chris's group. He said, "It is easier for me to count up by tens if I can go 50, 60, 70 . So I thought of a number line like this:"

A. Where did Frank start? Whose group made that number of hats?
B. How far is it from where Frank started to where he stopped? Whose group made that number of hats?
C. How did Frank use tens and ones?
D. Write a number sentence for Frank's moves on the number line.

Solve the problems in Question 4-10 using a mental math strategy, a number line strategy, or Julia's strategy. Check your solutions using a second strategy. Be prepared to show or tell it to someone else.
4. Chris's group wants to make 50 hats. How many more hats do they need to make?
5. How many more hats did Julia's group make than Chris's?
6. Mara's group made 48 hats and Jason's group made 25 hats. How many hats did the two groups make altogether?
7. How many more hats does Mara's group need to make to have 100 hats?
8. Suzanne's group made 67 hats. How many more hats does Suzanne's group need to make to reach 100 ?
9. On Monday the class made 151 hats. On Tuesday the class made 146 hats. How many hats did they make on both days altogether?
10. On Wednesday the class has to finish making the 500 hats. How many more hats will the class have to make?
$\sqrt{\text { Check-In: Question } 11}$
11. A. Solve $39+71$ using a mental math strategy. Show your solution B. Show how to solve the problem another way. You may use Julia's strategy, a number line strategy, or one of your own.
C. Which strategy do you like best? Why?

Complete the Use Tens and Ones pages in the Student Activity Book to practice mental math strategies for solving problems.

500 Hats SG•Grade 3. Unit 6.Lesson $1 \quad 127$

Student Guide - Page 127
*Answers and/or discussion are included in the lesson.
| TG • Grade $3 \cdot$ Unit 6•Lesson 1• Answer Key

Homework (SG p. 128)

## Questions 1-6

I. A. 1 hat
B. 11 hats
C. 61 hats
D. 81 hats
2. A. 2 hats
B. 7 hats
C. 27 hats
D. 77 hats
E. 377 hats
3. Explanations will vary. Possible response: I looked on my class number line and used what I knew from Question C. It is 27 from 123 to 150. Then it is 50 more to 200.27 and 50 more is 77 .
4. A. 8482
B. $94 \quad 92$
C. 104102
D. 184182
E. 194192
5. Descriptions will vary. Possible responses include: When you add 10,20 , or 30 more, the ones don't change. Adding 8 more is two less than adding ten more. Adding 18 more is two less than adding 20 more. Adding 28 more is two less than adding 30 more.
6. A. 62 67
B. 72 77
C. 82 87
D. 162 167
E. 172

177


Student Activity Book - Page 171

Name $\qquad$ Date


Chris's Number Sentence: $44+30-2=72$
2. Solve each problem using Chris's strategy or another number line strategy.
A. $37+49$


Number Sentence:
B. $69+26$


Number Sentence:
D. $84+19$


## Student Activity Book

Use Tens and Ones (SAB pp. 171-174)
Questions 1-5
I. A. $41=40+1$

$$
\frac{36=30+6}{70+7=77}
$$

B. $33=30+3$

$$
\frac{57=50+7}{80+10}=90
$$

C. $57=50+7$
$\frac{26=20+6}{70+13}=83$
D. $38=30+8$

$$
\frac{67=60+7}{90+15}=105
$$

E. $79=70+9$
$\frac{26=20+6}{90+15}=105$
F. $84=80+4$
$\frac{19=10+9}{90+13}=103$
2. Number line strategies will vary. One possible strategy is shown for each.
A.

B.

$69+1+20+5=95$
C.

$138+2+10+10+5=165$
D.


$$
84+10+10-1=103
$$

Student Activity Book - Page 172
3. Strategies will vary. One possible strategy given for each.
A. Using Julia's strategy.

$$
\begin{array}{r}
47=40+7 \\
+35=30+5 \\
\hline 70+12=82
\end{array}
$$

B. Using mental math: Instead of $29+54$, think of $30+53=83$.
C.

D. $136=100+30+6$

$$
\frac{+74=\quad 70+4}{100+100+10}=210
$$

E. Using mental math: Instead of $89+51$, think of $90+50=140$.
4. Responses will vary. Both Chris and Julia partitioned numbers into tens and ones. Chris used a number line and broke apart only one number. Julia broke both numbers into tens and ones.
5. Responses will vary.


Student Activity Book - Page 173


Student Activity Book - Page 174

