

Student Guide

Strategies for Making Tens (SG pp. 19–20)
Questions 1–17

1. 16 2. 27
3. 25 4. 27
5. 31 6. 36
7. 24 8. 24
9. 23 10. 24
11. 30 12. 43
13. A.* True: Answers will vary. Possible response:
I can switch the 9 and 8 and the sentence will still be true.
B.* 19
14. A.* True B.* True
C.* 24
15. A. True B. True
C. 16
16. A. True B. False
C. 22
17. A. True B. False
C. 20

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Strategies for Making Tens


Switching Numbers
Do the following problems in your head. Switch the order of the numbers you add so that it is easier to make a ten. Switching the order of the addends does not change the sum. There may be more than one way to solve each problem. A sample has been done for you.

Sample Problem: $4 + 9 + 6 =$ First I switch the 9 and 6. Now I add $4 + 6$ to make 10. Then I add the 9. The answer is 19.

1. $5 + 6 + 5 =$ 2. $12 + 7 + 8 =$
3. $5 + 9 + 11 =$ 4. $3 + 17 + 7 =$
5. $16 + 4 + 11 =$ 6. $14 + 16 + 6 =$

Breaking Addends into Parts
The numbers that are added in an addition problem are called the **addends**. The answer is called the **sum**. Find groups of ten in the following number sentences by breaking an addend into two parts. Then find the sum. There may be more than one way to solve each problem. Be ready to explain your thinking to the class.

Sample Problem: $5 + 9 + 6 =$


Copyright © Kendall Hunt Publishing Company  $\begin{matrix} 5 + 5 + 4 + 6 = \\ 10 + 10 = 20 \end{matrix}$

7. $16 + 6 + 2 =$ 8. $5 + 12 + 7 =$
9. $14 + 8 + 1 =$ 10. $13 + 2 + 9 =$
11. $14 + 12 + 4 =$ 12. $22 + 16 + 5 =$


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Number Sentences

 If I add $2 + 9 + 8$, I think $2 + 9$ is 11 and 8 more is 19.

$2 + 9 + 8 = 2 + 8 + 9$
True or False?

 I switch the 8 and 9, so I can add 8 and 2 to get 10. Then 9 more is 19.

Discuss 

13. A. Is the number sentence above true or false? Tell how you know.
B. $2 + 9 + 8 =$

For each of the problems below, decide if the number sentences in A and B are true or false. Then solve C. Be ready to explain your thinking.

14. A. $19 + 5 = 19 + 1 + 4$ B. $19 + 1 + 4 = 20 + 4$
C. $19 + 5 =$

15. A. $7 + 6 + 3 = 7 + 3 + 6$ B. $7 + 3 + 6 = 10 + 6$
C. $7 + 6 + 3 =$

16. A. $5 + 12 + 5 = 5 + 5 + 12$ B. $10 + 12 = 21$
C. $5 + 5 + 12 =$

17. A. $8 + 9 + 3 = 8 + 2 + 7 + 3$ B. $8 + 2 + 7 = 10 + 10$
C. $8 + 9 + 3 =$

Use the *Six Key Is Broken* page in the *Student Activity Book* to continue to look for tens in number sentences.

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*Answers and/or discussion are included in the lesson.

Student Activity Book

**Switch It! (SAB p. 33)
Questions 1–3**

Solution strategies will vary.

1. **A.** 26; $(3 + 7) + 16 = 26$
B. 27; $(9 + 1) + 17 = 27$
C. 21; $(8 + 2) + 11 = 21$
D. 26; $(5 + 5) + 10 + 6 = 26$
E. 27; $(12 + 8) + 7 = 27$
2. Solution strategies will vary.
3. Problems will vary.

Name _____ Date _____

Switch It!

Homework

1. Complete the following problems in your head. Try to use a ten whenever possible.
 - A. $3 + 16 + 7 =$ _____
 - B. $9 + 17 + 1 =$ _____
 - C. $2 + 11 + 8 =$ _____
 - D. $5 + 15 + 6 =$ _____
 - E. $7 + 12 + 8 =$ _____
2. Choose two problems from above and tell how you solved each one. You can use pictures, words, or number sentences and the space below the problem to explain.
3. Write and solve your own addition problem.

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**Six Key Is Broken (SAB p. 35)
Questions 1–4**

Solution strategies and keystrokes will vary. One possible response is given for each.

1. 23; $1 + 5 + 15 + 2 =$
2. 27; $17 + 3 + 3 + 4 =$
3. 27; $14 + 3 + 3 + 7 =$
4. 25; $4 + 2 + 18 + 1 =$

Name _____ Date _____

Six Key Is Broken

Imagine the six key on your calculator is broken. What keystrokes would you press to do the problems below? Look for tens. For example, $7 + 16 + 4$ could be solved by pressing: $7 + 3 + 13 + 4 =$

List your keystrokes and write the sum. You do not have to fill all the boxes.

1. $6 + 15 + 2 =$ _____

2. $17 + 6 + 4 =$ _____

3. $14 + 6 + 7 =$ _____

4. $6 + 18 + 1 =$ _____

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Teacher Guide

Making Tens to Add (TG p. 1)

Questions 1–7

1. 15; $8 + 5 + 2 = 8 + 2 + 5$, so $8 + 2 = 10$ and $10 + 5 = 15$.
2. 16; $7 + 5 + 4 = 7 + 3 + 2 + 4$, so $7 + 3 = 10$ and $10 + 6 = 16$.
3. 30; $16 + 6 + 8 = 16 + 4 + 2 + 8$, so $16 + 4 = 20$ and $20 + 10 = 30$.
4. 37; $22 + 7 + 8 = 22 + 8 + 7$, so $22 + 8 = 30$ and $30 + 7 = 37$.
5. **A. True** **B. True**
C. 25
6. **A. True** **B. True**
C. 15
7. **A. True** **B. False**
C. 16

Name _____ Date _____

Making Tens to Add

Solve each problem. Use the switching-numbers or breaking-addends strategies. Show your strategy in the thought bubble.

1. $8 + 5 + 2 = \underline{\quad}$

2. $7 + 5 + 4 = \underline{\quad}$

3. $16 + 6 + 8 = \underline{\quad}$

4. $22 + 7 + 8 = \underline{\quad}$

For each of the problems below, decide if the number sentences in A and B are true or false. Circle the true number sentences. Then solve C.

5. **A.** $18 + 7 = 18 + 2 + 5$

C. $18 + 7 = \square$

B. $18 + 2 + 5 = 20 + 5$

6. **A.** $7 + 5 + 3 = 7 + 3 + 5$

C. $7 + 5 + 3 = \square$

B. $7 + 5 + 3 = 10 + 5$

7. **A.** $4 + 9 + 3 = 4 + 3 + 9$

C. $4 + 9 + 3 = \square$

B. $4 + 9 + 1 + 2 = 20 + 6$

Assessment Master TG • Grade 3 • Unit 2 • Lesson 2 |