





Teacher Guide

Part 2. Subtraction with Base-Ten Pieces
Questions 1–2 (TG p. 1)

I. A.

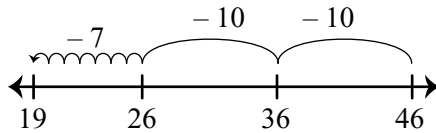
 10s	 1s
3 4	16 6
- 2	7
1	9

B.

 10s	 1s
6 7	12 2
- 5	6
1	6

2. Strategies will vary. One solution is shown for each.

A. 19;



B. $72 = 70 + 2 = 60 + 12$
 $56 = 50 + 6 = 50 + 6$

$10 + 6 = 16$

Part 3. Relate Subtraction and Addition
Questions A–J (TG p. 2)

- A. $7 - 1 = \boxed{6}$ B. $7 - \boxed{6} = 1$
 C. $70 - \boxed{10} = 60$ D. $70 - \boxed{60} = 10$
 E. $\begin{array}{r} 6 \\ + 2 \\ \hline 8 \end{array}$ F. $\begin{array}{r} 8 \\ - 6 \\ \hline 2 \end{array}$ G. $\begin{array}{r} 50 \\ + 20 \\ \hline 70 \end{array}$
 H. $\begin{array}{r} 70 \\ - 50 \\ \hline 20 \end{array}$ I. $\begin{array}{r} 6 \\ + 5 \\ \hline 11 \end{array}$ J. $\begin{array}{r} 11 \\ - 6 \\ \hline 5 \end{array}$

- K. Possible response: I can think $6 + ? = 11$, that's 5, $11 - 6 = 5$.
 L. Possible response: I know 6 is $5 + 1$ so I think of the number line and hop back 1 from 11 to 10 then back 5 more to 5, so $11 - 6 = 5$.

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



Unit 10: Home Practice

Part 1 Triangle Flash Cards:
Group B Subtraction Facts

Take home your *Triangle Flash Cards: Group B Subtraction Facts*. Ask a family member to choose one flash card at a time for you to solve. Sort the flash cards into three piles: Facts I Know Quickly, Facts I Can Figure Out, and Facts I Need to Learn. Update your *Subtraction Facts I Know* chart. Clip the cards in the Facts I Know Quickly pile together and place them back into the envelope. Practice the facts in the last two piles again.

Part 2 Subtraction with Base-Ten Pieces

1. Think of base-ten pieces as you solve each problem.

A.  10s	 1s	B.  10s	 1s
4	6	7	2
- 2	7	- 5	6

2. Now solve each problem using a different method.

A. $\begin{array}{r} 46 \\ - 27 \\ \hline \end{array}$ B. $\begin{array}{r} 72 \\ - 56 \\ \hline \end{array}$

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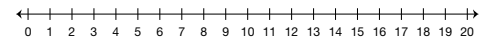
Name _____ Date _____

Part 3 Relate Subtraction and Addition

- A. $7 - 1 = \square$ B. $7 - \square = 1$
 C. $70 - \square = 60$ D. $70 - \square = 10$
 E. $\begin{array}{r} 6 \\ + 2 \\ \hline \end{array}$ F. $\begin{array}{r} 8 \\ - 6 \\ \hline \end{array}$ G. $\begin{array}{r} 50 \\ + 20 \\ \hline \end{array}$
 H. $\begin{array}{r} 70 \\ - 50 \\ \hline \end{array}$ I. $\begin{array}{r} 6 \\ + 5 \\ \hline \end{array}$ J. $\begin{array}{r} 11 \\ - 6 \\ \hline \end{array}$

K. Show or tell how to use the problem in Question I to solve Question J.

L. Show or tell how to use counting back to solve Question J.



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Part 4 Just the Facts

1. Make each number sentence true.

A. $9 - 1 = \square + 6$ B. $1 + 6 = 8 - \square$
 C. $4 - \square = 4 + 0$ D. $4 + \square = 6 - 1$
 E. $3 + \square = 5 - 2$ F. $7 - 2 = \square + 4$

2. Complete the fact families.

A. $5 + 1 = 6$ B. $5 + 3 = 8$ C. $1 + 8 = 9$

3. Solve the addition and subtraction problems.

A. $4 + 1 = \square$ B. $60 - 20 = \square$
 $40 + 10 = \square$ $6 - 2 = \square$
 C. $10 + \square = 80$ D. $5 - 3 = \square$
 $1 + \square = 8$ $50 - 30 = \square$

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Part 4. Just the Facts (TG p. 3)
Questions 1–3

1. A. $9 - 1 = \boxed{2} + 6$
 B. $1 + 6 = 8 - \boxed{1}$
 C. $4 - \boxed{0} = 4 + 0$
 D. $4 + \boxed{1} = 6 - 1$
 E. $3 + \boxed{0} = 5 - 2$
 F. $7 - 2 = \boxed{1} + 4$
2. A. $1 + 5 = 6$ B. $3 + 5 = 8$
 $6 - 5 = 1$ $8 - 5 = 3$
 $6 - 1 = 5$ $8 - 3 = 5$
- C. $8 + 1 = 9$
 $9 - 8 = 1$
 $9 - 1 = 8$
3. A. $4 + 1 = \boxed{5}$ B. $60 - 20 = \boxed{40}$
 $40 + 10 = \boxed{50}$ $6 - 2 = \boxed{4}$
 C. $10 + \boxed{70} = 80$ D. $5 - 3 = \boxed{2}$
 $1 + \boxed{7} = 8$ $50 - 30 = \boxed{20}$

Name _____ Date _____

Part 5 Checking with Addition

1. Kim's solution to some subtraction problems are below. She made some mistakes. Use addition to check her answers and find her mistakes. If an answer is wrong, rewrite the problem and solve it correctly.

Check with Addition	Solve the Problem
<p>A. 93 $\underline{-49}$ 56</p>	
<p>B. 49 $\underline{-27}$ 22</p>	
<p>C. 67 $\underline{-39}$ 32</p>	

2. Solve by making both sides equal.

A. $8 + 12 = 18 + \square$ B. $9 + 16 = 19 + \square$
 C. $6 + 14 = 16 + \square$ D. $5 + 23 = 15 + \square$
 E. $17 + 3 = 7 + \square$ F. $21 + 7 = 11 + \square$

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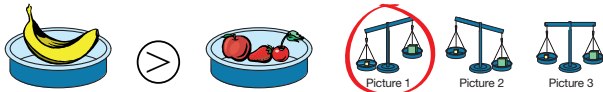
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Part 5. Checking with Addition
Questions 1–2 (TG p. 4)

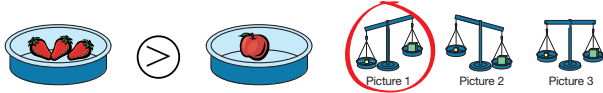
1. A. Wrong
- $$\begin{array}{r} 56 \\ +49 \\ \hline 105 \end{array} \quad \begin{array}{r} 8\ 13 \\ \cancel{93} \\ -49 \\ \hline 44 \end{array}$$
- B. Correct
- $$\begin{array}{r} 22 \\ +27 \\ \hline 49 \end{array}$$
- C. Wrong
- $$\begin{array}{r} 32 \\ +39 \\ \hline 71 \end{array}$$
-
2. A. 2 B. 6
 C. 4 D. 13
 E. 13 F. 17

Part 6. Comparing Masses (TG p. 5)
Questions A–D

A.



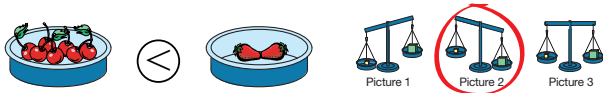
B.



C.

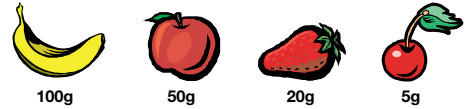


D.



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Part 6 Comparing Masses



Compare the two quantities in the balance pans. Circle the picture that shows what will happen.

A.

B.

C.

D.

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< less than
> greater than
= equal to



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