

**Teacher Guide**

**Choose Which Way to Subtract**  
 (TG pp. 1–2)  
**Homework**  
**Questions A–E**

Estimates will vary. Paper-and-pencil methods will vary. Both methods are shown below.

A.  $79 = 70 + 9$   
 $24 = 20 + 4$   
 $\underline{50 + 5 = 55}$

$$\begin{array}{r} 79 \\ - 24 \\ \hline 55 \end{array}$$

B.  $66 = 60 + 6 = 50 + 16$   
 $37 = 30 + 7 = 20 + 17$   
 $\underline{20 + 9 = 29}$

$$\begin{array}{r} 5\ 16 \\ \cancel{66} \\ - 37 \\ \hline 29 \end{array}$$

C.  $159 = 100 + 50 + 9$   
 $125 = 100 + 20 + 5$   
 $\underline{30 + 4 = 34}$

$$\begin{array}{r} 159 \\ - 125 \\ \hline 34 \end{array}$$

D.  $172 = 100 + 70 + 2 = 100 + 60 + 12$   
 $137 = 100 + 30 + 7 = 100 + 30 + 7$   
 $\underline{30 + 5 = 35}$

$$\begin{array}{r} 6\ 12 \\ \cancel{172} \\ - 137 \\ \hline 35 \end{array}$$

E. Estimation strategies will vary.

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**Choose Which Way to Subtract**

**Homework**

Dear Family Member:  
 After your child has completed these problems, ask him or her to choose one problem and explain the steps taken to solve it.  
 Thank you.

**Paper-and-Pencil Ways to Subtract**

Expanded Form	Compact
$75 = 70 + 5 = 60 + 15$	$\begin{array}{r} 75 \\ - 28 \\ \hline 47 \end{array}$
$28 = 20 + 8 = 20 + 8$	$\begin{array}{r} 28 \\ - 28 \\ \hline 0 \end{array}$
$40 + 7 = 47$	$\begin{array}{r} 40 \\ + 7 \\ \hline 47 \end{array}$

Solve each problem using a paper-and-pencil way. Choose each way at least once. Estimate first to make sure your answer is reasonable.

A.  $79 - 24 =$

Estimate:

B.  $\begin{array}{r} 66 \\ - 37 \\ \hline \end{array}$

Estimate:

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C.  $159 - 125$

Estimate:

D.  $\begin{array}{r} 172 \\ - 137 \\ \hline \end{array}$

Estimate:

E. Choose one problem. Show how you estimated to check the reasonableness of your answer.

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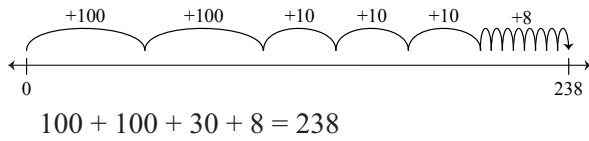
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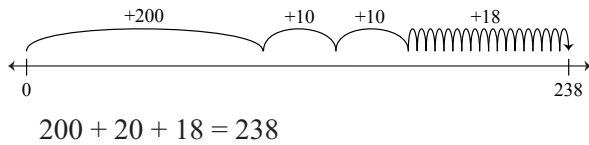
**Part 5. Show 238 (TG p. 5)**

**Questions 1–4**

1.



2.



3.



$200 + 30 + 8 = 238$

4.

$200 + 30 + 38$        $23 + 8$        $200 + 38$   
 $230 + 8$        $200 + 8 + 30$        $200 + 20 + 18$

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**Part 5 Show 238**  
Show 238 several different ways.

1. Show a base-ten hopper hopping on a number line.

Number sentence \_\_\_\_\_

2. Show a base-ten hopper hopping on a number line a different way.

Number sentence \_\_\_\_\_

3. Use base-ten shorthand.

Number sentence \_\_\_\_\_

4. Circle the number sentences that also show 238.

$200 + 30 + 38$        $23 + 8$        $200 + 38$   
 $230 + 8$        $200 + 8 + 30$        $200 + 20 + 18$

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**Part 6. Addition Strategies (TG p. 6)**

**Questions 1–2**

1. A.  $6 + 4 = 10$  and  $50 + 20 = 70$  so  $70 + 10 = 80$

B.  $56 + 4 = 60$  and  $60 + 20 = 80$

2. A.

$$\begin{array}{r} 146 \\ + 45 \\ \hline 191 \end{array}$$

B.

$$\begin{array}{r} 1237 \\ + 53 \\ \hline 290 \end{array}$$

C.

$$\begin{array}{r} 252 \\ + 139 \\ \hline 11 \\ 80 \\ \hline 300 \\ \hline 391 \end{array}$$

B.

$$\begin{array}{r} 219 \\ + 187 \\ \hline 300 \\ 90 \\ \hline 16 \\ \hline 406 \end{array}$$

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**Part 6 Addition Strategies**

1. Solve the addition problem. Start each solution a different way.

One Strategy	Another Strategy
<p>A. <math>56 + 24</math> Start by adding <math>6 + 4</math></p>	<p>B. <math>56 + 24</math> Start by adding <math>56 + 4</math></p>

2. Finish each students' work. Then use the same strategy to solve a different problem.

Complete the Problem	Use the Strategy
<p>A. Finish Tara's work.</p> $\begin{array}{r} \square \\ 146 \\ + 45 \\ \hline \square \square 1 \end{array}$	<p>B. Solve it Tara's way.</p> $\begin{array}{r} 237 \\ + 53 \\ \hline \end{array}$
<p>D. Finish Nichola's work.</p> $\begin{array}{r} 252 \\ + 139 \\ \hline 11 \\ 80 \\ \hline \square \\ \square \end{array}$	<p>D. Solve it Nichola's way.</p> $\begin{array}{r} 219 \\ + 187 \\ \hline \end{array}$

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