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Rounding to the Nearest Ten, Hundred & Thousand

When you are rounding, look at the digit one place to the right of where you want to round. If you round to the nearest ten, look at the digit in the ones place. If you round to the nearest hundred, look at the digit in the tens place. If you round to the nearest thousand, look at the digit in the hundreds place.

If the digit is 5 or higher, round up. If it is less than 5, round down.

1 Underline the number in the ones place. Then circle *up* or *down* to show whether you are rounding up or down. Then round the number to the nearest ten.

example 6<u>4</u> rounds up/(down) to 60. **a** 26 rounds up/down to _____.

b 182 rounds up/down to _____. **c** 1,208 rounds up/down to _____.

2 Underline the number in the tens place. Then circle *up* or *down* to show whether you are rounding up or down. Then round the number to the nearest hundred.

a 129 rounds up/down to _____. **b** 467 rounds up/down to _____.

c 253 rounds up/down to _____. **d** 3,348 rounds up/down to _____.

3 Underline the number in the hundreds place. Then circle *up* or *down* to show whether you are rounding up or down. Then round the number to the nearest thousand.

a 5,702 rounds up/down to _____. **b** 4,207 rounds up/down to _____.

c 2,540 rounds up/down to _____. **d** 8,395 rounds up/down to _____.

4 Complete the addition facts.

5	7	10	7	9	12	25
+ 6	+ 8	+ 11	+ 6	+ 8	+ 13	+ 26
____	____	____	____	____	____	____

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Close Estimates

1 Estimate the sum for each problem below. Then solve it using the strategy that makes the best sense to you. If your exact answer does not come close to your estimate, try solving the problem with a different strategy.

Numbers to Add	Estimate	Exact Sum	Does your exact sum come close to your estimate? (yes or no)	Check your answer if the sum and estimate were far from each other.
a 176 + 235				
b 4,309 + 246				
c 3,817 + 2,436				

CHALLENGE

2 Fill in the missing numbers below.

$$\begin{array}{r} 2\,\square\,3 \\ +\,\square\,3\,\square \\ \hline 7\,1\,9 \end{array} \qquad \begin{array}{r} 4\,1\,7 \\ +\,\square\,\square\,3 \\ \hline 1\,2\,2\,\square \end{array} \qquad \begin{array}{r} 7\,\square\,9 \\ +\,3\,6\,1 \\ \hline \square\,1\,0\,\square \end{array}$$

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Round & Subtract

1 Rounding numbers can help you make good estimates. Round each pair of numbers to the nearest *ten* and then subtract the rounded numbers to estimate the difference.

Numbers to Subtract	Rounded to the Nearest Ten	Estimated Difference
ex 867 – 485	870 – 490	$^{7}\not{8}70$ -490 380
The difference between 867 and 485 is about equal to 380.		
a 608 – 263	_____ – _____	
The difference between 608 and 263 is about equal to _____.		
b 732 – 546	_____ – _____	
The difference between 732 and 546 is about equal to _____.		

2 Now round to the nearest *hundred* and then subtract to estimate the difference.

a 1,508 – 620	_____ – _____	
The difference between 1,508 and 620 is about equal to _____.		
b 2,482 – 936	_____ – _____	
The difference between 2,482 and 936 is about equal to _____.		

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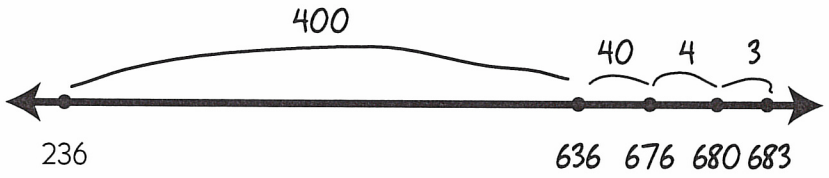
Add to Find the Difference

You can add up from the smaller number to find the difference between two numbers. A number line can help you keep track of your jumps. Add up all the jumps to find the difference between the two numbers.

Use the number line to make jumps from the smaller number to the larger number.	Add up all the jumps to find the difference.
ex 683 − 236 	400 40 4 + 3 447
1 508 − 374 	
2 653 − 377 	
3 1,345 − 893 	

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Rounding Review

When you are rounding, look at the digit one place to the right of where you want to round. If you round to the nearest ten, look at the digit in the ones place. If you round to the nearest hundred, look at the digit in the tens place. If you round to the nearest thousand, look at the digit in the hundreds place.

If the digit is 5 or higher, round up. If it is less than 5, round down.

1 Underline the number in the *ones* place. Then circle *up* or *down* to show whether you are rounding *up* or *down*. Then round the number to the nearest ten.

example 33<u>4</u> rounds up/(down) to 330.

a 476 rounds up/down to _____.

b 2,053 rounds up/down to _____.

c 4,388 rounds up/down to _____.

2 Underline the number in the *tens* place. Then circle *up* or *down* to show whether you are rounding *up* or *down*. Then round the number to the nearest hundred.

a 328 rounds up/down to _____.

b 961 rounds up/down to _____.

c 4,553 rounds up/down to _____.

d 3,348 rounds up/down to _____.

3 Underline the number in the *hundreds* place. Then circle *up* or *down* to show whether you are rounding *up* or *down*. Then round the number to the nearest thousand.

a 4,389 rounds up/down to _____.

b 2,503 rounds up/down to _____.

c 1,437 rounds up/down to _____.

d 6,614 rounds up/down to _____.

4 Complete the subtraction facts.

16	15	18	12	13	11	13
− 7	− 8	− 9	− 3	− 8	− 8	− 4
____	____	____	____	____	____	____

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Estimates & Exact Answers

1 Use estimation to answer each question *yes* or *no*.

a Sue has $346 dollars. She wants to buy a bike and still have $150 left. She found a bike that costs $189. Can she buy it and still have $150 left?

b Bruce decided to give away some of his 400 baseball cards. He wants to keep at least 150 of them. If Bruce gives one friend 167 cards and another friend 112 cards, will he have at least 150 left?

c Luis and Carlos are in a reading contest to see who can read the most pages. Luis wants to win by at least 150 pages. Carlos read 427 pages. If Luis reads 526 pages, will he win by at least 150 pages?

2 First estimate the difference between the two numbers. You could round them and then subtract, or you could think about what you have to add to the smaller number to get to the bigger number. Then find the exact difference between the two numbers. Check your answer with your estimate to be sure it makes sense: if it doesn't make sense, check your work or do it another way.

Numbers to Subtract	Estimated Difference	Exact Difference
a 487 − 309		
b 1,825 − 643		

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Place Value Four-Digit Numbers

1 Complete each equation by writing each number in standard form.

example 8,000 + 20 + 6 = 8,026

a 4,000 + 800 + 30 + 1 = _____

b 9,000 + 400 + 60 + 2 = _____

c _____ = 7,000 + 60 + 2

d 5,000 + 300 + 80 = _____

e _____ = 2,000 + 100 + 4

2 Fill in the missing numbers or words.

Numbers	Words
ex a 5,629	five thousand six hundred twenty-nine
ex b 3,082	three thousand eighty-two
a	two thousand twelve
b	eight thousand five hundred sixty-seven
c 6,032	
d 1,583	

3 Use your estimation skills to answer each question *yes* or *no* without adding or subtracting to find an exact answer.

a The Lighting Bolts need 200 points to make it to the next round of the basketball tournament. So far, they have 154 points. If they score 37 more points by the end of the game, will they make it to the next round?

b Simon has $300 to spend. Can he afford to buy a bike for $150, safety lights for $34, and a good helment for $56?

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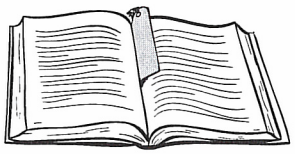
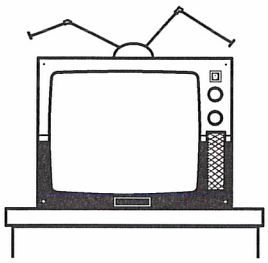
Flora's Book & Greg's TV

1 Flora was reading a book that was 283 pages long. She read 56 pages on Thursday, 45 pages on Friday, and 72 pages on Saturday. How many pages will she have to read on Sunday to finish her book? Show all your work.



2 Greg wants to buy a new TV that costs $1,679. He has $326 in his bank account. His grandma gave him $50 for his birthday. He will earn $385 mowing lawns this summer. How much more money will he need to buy the TV? Show all your work.



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Estimate Before You Subtract

Before you start subtracting numbers, it is a good idea to estimate what the difference will be. That way, you can tell if your final answer is reasonable. Round each pair of numbers to the nearest ten and then subtract the rounded numbers to estimate the difference. Then use the algorithm to find the exact difference.

Numbers to Subtract	Round and Subtract	Estimated Difference	Exact Difference (use the algorithm)
example 1,357 − 849	1,360 − 850 510	510	4 1 1,357 − 849 508
1 643 − 427			643 − 427
2 812 − 364			812 − 364
3 4,302 − 656			4,302 − 656

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Pages & Miles

1a Tasha and her friends are in a reading contest. Last year, the winning team read 2,546 pages. So far, Tasha has read 186 pages. Her friend Lisa has read 203 pages, and her friend Robert has read 215 pages. Estimate how many more pages they need to read altogether to beat last year's winning team.

b Exactly how many pages do they need to read to beat last year's winning team? Show all your work. Make sure your answer comes close to your estimate. If it does not, check your work or solve the problem another way.

2a Esteban and his mom are driving to see his grandma. They have to drive 865 miles altogether. On Monday, they drove 186 miles. On Tuesday, they drove 267 miles. Estimate how many miles they will need to drive on Wednesay to get to his grandma's house.

b Exactly how many miles do they need to drive on Wednesday to get to his grandma's house? Show all your work. Make sure your answer comes close to your estimate. If it does not, check your work or solve the problem another way.