Name: _____ Date: _____

CHAPTER 1 Whole Numbers

Worksheet 1 Numbers to 10,000,000

Write the value represented by the ◯s.

Example

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
◯◯◯ ◯◯	◯◯◯ ◯◯◯ ◯◯	◯◯◯ ◯	◯◯	◯◯◯ ◯◯◯ ◯◯◯	◯◯◯ ◯◯◯ ◯
5 hundred thousands	8 ten thousands	4 thousands	2 hundreds	9 tens	7 ones

1.

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
◯◯◯ ◯◯◯ ◯◯	◯◯	◯◯◯ ◯◯	◯◯◯	◯◯◯ ◯◯◯	◯◯◯ ◯◯◯ ◯◯
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

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Write each number in standard form.

Example

two hundred seventy-five thousand, three hundred eighty-one

275,381 **standard form**

2. thirty-two thousand, four hundred ninety-one _____

3. eight hundred thirteen thousand _____

4. three hundred sixty thousand, three hundred forty-eight _____

5. six hundred four thousand, nine hundred nine _____

Write each number in word form.

Example

Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
6	5	9	1	4	0

six hundred fifty-nine thousand one hundred forty

The **word form** of the number is six hundred fifty-nine thousand, one hundred forty.

6. 76,830 _____

7. 438,586 _____

8. 890,704 _____

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Worksheet 2 Numbers to 10,000,000

Write the value represented by the ◯s.

Example

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
◯◯◯	◯◯	◯◯◯ ◯◯◯	◯	◯◯◯ ◯◯◯ ◯	◯◯◯	◯◯◯ ◯◯
3 millions	2 hundred thousands	6 ten thousands	1 thousand	7 hundreds	3 tens	5 ones

1.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
◯◯◯ ◯◯◯ ◯	◯	◯◯◯ ◯	◯◯◯ ◯◯◯ ◯◯◯	◯◯◯ ◯◯◯	◯◯	◯◯◯ ◯◯◯ ◯◯
_____	_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____	_____

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Write each number in standard form.

Example

three million, four hundred eighty-nine thousand, five hundred twenty-six 3,489,526

2. four million, two hundred twenty-one thousand, nine hundred fourteen _____

3. two million, seven hundred eight thousand, forty-five _____

4. seven million, fifty-eight thousand, four hundred nine _____

Write each number in word form.

Example

2,654,320 two million, six hundred fifty-four thousand, three hundred twenty

5. 84,495 _____

6. 4,628,315 _____

7. 9,032,160 _____

8. 6,020,078 _____

9. 5,016,804 _____

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Worksheet 3 Place Value

Complete. Use the place-value chart.

Example

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
5	6	3	8	2	4	7

In 5,638,247:

the digit 2 stands for 200.

the digit 6 stands for 600,000.

the digit 5 stands for 5,000,000.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
3	2	7	4	5	1	6

In 3,274,516:

1. the digit 1 stands for _____.

2. the digit 4 stands for _____.

3. the digit 2 stands for _____.

4. the digit 3 stands for _____.

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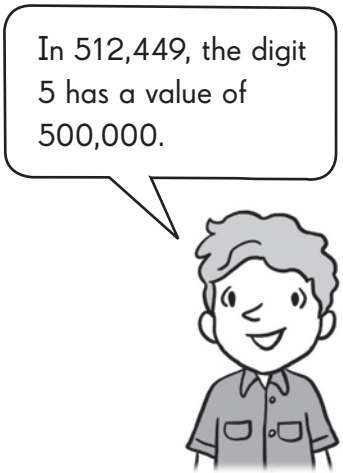
Write the value of the digit 5 in each number.

	Number	Value of Digit 5
	512,449	500,000
5.	751,008	
6.	5,108,009	



Complete. Use the place-value chart.

Example

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
8	2	7	0	9	3	1

In 8,270,931:

the digit 3 is in the tens place.

the digit 7 is in the ten thousands place.

the digit 8 is in the millions place.

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
4	2	6	1	9	5	7

In 4,261,957:

7. the digit 1 is in the _____ place.

8. the digit 2 is in the _____ place.

9. the digit 4 is in the _____ place.

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Complete.

Example

In 2,409,318 the digit 2 is in the millions place.

10. In 215,789, the digit _____ is in the thousands place.

11. In 672,381, the digit _____ is in the hundred thousands place.

12. In 8,237,695, the digit _____ is in the millions place.

13. In 4,197,358, the digit _____ is in the ten thousands place.

Complete.

Example

4,000,000 + 300,000 + 20,000 + 5,000 + 700 + 90 + 8

= 4,325,798

14. 40,000 + 5,000 + 100 + 8 = _____

15. 60,000 + 3,000 + 5 = _____

16. 500,000 + 30,000 + 6,000 + 800 + 2 = _____

17. 9,000,000 + 700,000 + 40,000 + 1,000 + 300 + 80 = _____

18. 1,000,000 + 500,000 + 8,000 + 800 + 5 = _____

19. 8,000,000 + 900,000 + 40,000 + 40 + 9 = _____

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Express each number in expanded form. Fill in the blanks.

Example

3,742,859 = 3,000,000 + 700,000 + 40,000 + 2,000 + 800 + 50 + 9

expanded form of 3,742,859

20. 23,748 = _____ + _____ + 700 + _____ + 8

21. 81,059 = _____ + 1,000 + 50 + _____

22. 725,491 = _____ + _____ + 5,000 + _____ + _____ + 90 + _____

23. 5,061,734 = _____ + _____ + 1,000 + _____ + 30 + _____

24. 8,204,573 = _____ + _____ + 4,000 + 500 + 70 + _____

25. 2,680,307 = 2,000,000 + _____ + 80,000 + _____ + _____

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Worksheet 4 Comparing Numbers to 10,000,000

Compare the numbers. Then fill in the blanks with *greater than* or *less than*.

1. 31,824 is _____ 32,428.

2. 56,035 is _____ 56,117.

Complete the place-value chart. Then use it to compare the numbers.

Example

2,485,092 and 2,391,406

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones
2	4	8	5	0	9	2
2	3	9	1	4	0	6

2,391,406 is less than 2,485,092.

2,391,406 < 2,485,092

Compare the value of each digit from left to right. > means **greater than** and < means **less than**.

3. 5,126,432 and 5,102,204

Millions	Hundred Thousands	Ten Thousands	Thousands	Hundreds	Tens	Ones

5,126,432 is _____ 5,102,204.

5,126,432 ◯ 5,102,204

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Compare the values of the digits in the millions place. Then compare the values of the digits in the hundred thousands place if necessary.

Complete.

4. 4,572,369 6,572,936 _____ is greater.

5. 3,400,369 2,907,369 _____ is greater.

6. 5,482,176 5,248,998 _____ is lesser.

7. 6,104,258 6,041,852 _____ is lesser.

Circle the greater number.

8. 285,012 739,246

9. 1,687,198 1,841,007

Circle the greatest number.

10. 1,250,409 1,205,409 502,409

11. 6,458,692 6,548,692 5,684,269

Order the numbers from least to greatest.

12. 2,360,518 2,409,518 788,999

_____

13. 7,569,483 8,000,002 6,787,157

_____

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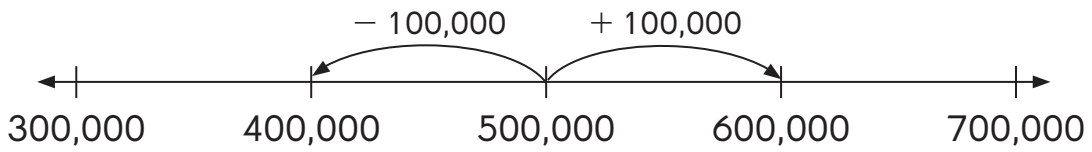
Complete. Use the number line to help you.

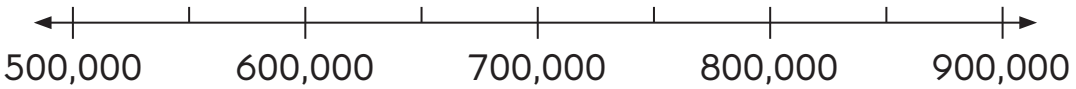
Example



100,000 more than 500,000 is 600,000.

100,000 less than 500,000 is 400,000.

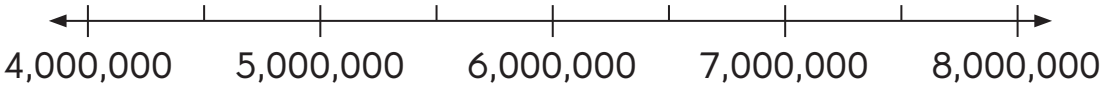
14.



50,000 more than 700,000 is _____.

50,000 less than 700,000 is _____.

15.



500,000 more than 6,000,000 is _____.

500,000 less than 6,000,000 is _____.

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Answer each question.

Example

What is 2,000,000 more than 5,000,000? 7,000,000

What is 2,000,000 less than 5,000,000? 3,000,000

16. What is 500,000 more than 5,000,000? _____

17. What is 500,000 less than 5,000,000? _____

18. What is 1,500,000 more than 8,000,000? _____

19. What is 1,500,000 less than 8,000,000? _____

Add.

Example

8,300,000 $\xrightarrow{+\ 1{,}000{,}000}$ 9,300,000

20. 2,400,000 $\xrightarrow{+\ 300{,}000}$ _____

21. 6,500,000 $\xrightarrow{+\ 700{,}000}$ _____

22. 7,400,000 $\xrightarrow{+\ 1{,}500{,}000}$ _____

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Subtract.

Example

$3{,}500{,}000 \xrightarrow{-\ 1{,}000{,}000}$ *2,500,000*

23. $5{,}600{,}000 \xrightarrow{-\ 400{,}000}$ _____

24. $4{,}700{,}000 \xrightarrow{-\ 800{,}000}$ _____

25. $9{,}400{,}000 \xrightarrow{-\ 1{,}500{,}000}$ _____

Complete.

26. $6{,}200{,}000 \xrightarrow{+\ \square} 6{,}700{,}000$

27. $4{,}850{,}000 \xrightarrow{+\ \square} 5{,}000{,}000$

28. $9{,}400{,}000 \xrightarrow{-\ \square} 8{,}800{,}000$

29. $7{,}520{,}000 \xrightarrow{-\ \square} 6{,}920{,}000$

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Find the rule. Then complete each number pattern.

Example

1,105,236 1,405,236 1,705,236 2,005,236 2,305,236

Add 300,000 to 1,105,236 to get 1,405,236.
Add 300,000 to 1,405,236 to get 1,705,236.
The rule is to add 300,000 to find the next number in the pattern.

30. 150,000 160,000 170,000 _____ _____

Rule: _____

31. 7,650,000 7,150,000 6,650,000 _____ _____

Rule: _____

32. 1,200,000 2,300,000 3,400,000 _____ _____

Rule: _____

Complete each number pattern.

33. 42,000 52,000 62,000 _____ _____

34. 50,700 50,600 50,500 _____ _____

35. 545,000 525,000 _____ _____ 465,000

36. 3,609,707 3,509,707 _____ _____ 3,209,707

37. _____ _____ 4,127,304 4,128,404 4,129,504

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Worksheet 5 Rounding and Estimating

Write the digit in the hundreds place.

1. 3,649 _____ **2.** 8,278 _____

3. 9,501 _____ **4.** 7,499 _____

Write the digit in the thousands place.

5. 9,643 _____ **6.** 7,882 _____

7. 8,076 _____ **8.** 2,007 _____

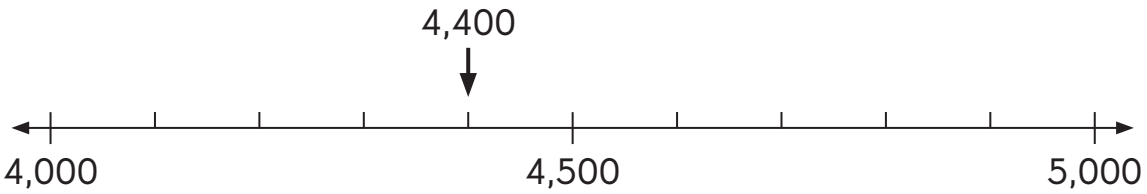
Round each number to the nearest hundred.

9. 4,586 _____ **10.** 6,245 _____

11. 1,353 _____ **12.** 7,129 _____

Look at the number line. Then complete the sentences and round each number to the nearest thousand.

Example



4,400 is nearer to 4,000 than to 5,000.

4,400 rounded to the nearest thousand is 4,000.

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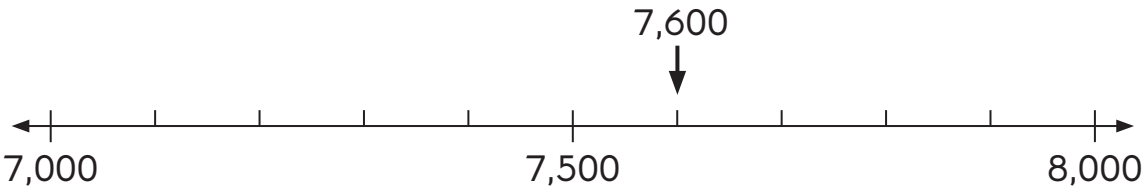
Look at the number line. Then complete the sentences and round each number to the nearest thousand.

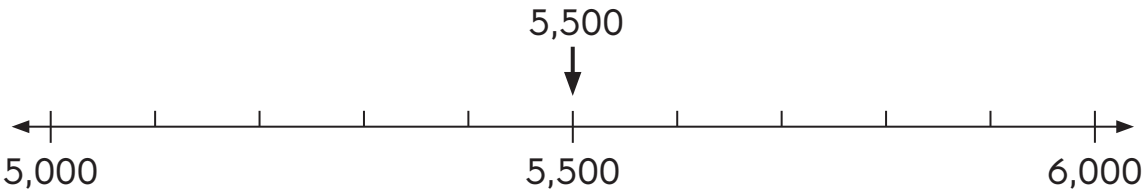
13.



7,600 is nearer to _____ than to _____.

7,600 rounded to the nearest thousand is _____.

14.



5,500 is halfway between _____ and _____.

5,500 rounded to the nearest thousand is _____.

Round each number to the nearest thousand.

15. 7,945 _____

16. 6,498 _____

17. 8,092 _____

18. 9,504 _____

Estimate the sum and difference by rounding to the nearest hundred.

19. 274 + 516

20. 735 − 581

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Estimate each sum by rounding to the nearest thousand.

Example

2,458 + 4,786

2,458 rounds to 2,000.

4,786 rounds to 5,000.

2,458 + 4,786 is about 2,000 + 5,000 = 7,000.

21. 4,862 + 5,309

4,862 rounds to _____.

5,309 rounds to _____.

4,862 + 5,309 is about _____ + _____ = _____.

22. 5,364 + 3,289

5,364 rounds to _____.

3,289 rounds to _____.

5,364 + 3,289 is about _____ + _____ = _____.

23. 6,881 + 2,708

6,881 rounds to _____.

2,708 rounds to _____.

6,881 + 2,708 is about _____ + _____ = _____.

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Estimate each difference by rounding to the nearest thousand.

Example

5,819 − 5,259

5,819 rounds to 6,000.

5,259 rounds to 5,000.

5,819 − 5,259 is about 6,000 − 5,000 = 1,000.

24. 2,396 − 1,457

2,396 rounds to _____.

1,457 rounds to _____.

2,396 − 1,457 is about _____ − _____ = _____.

25. 7,643 − 1,226

7,643 rounds to _____.

1,226 rounds to _____.

7,643 − 1,226 is about _____ − _____ = _____.

26. 5,892 − 3,607

5,892 rounds to _____.

3,607 rounds to _____.

5,892 − 3,607 is about _____ − _____ = _____.

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Write the leading digit of each number.

27. 7,536 _____ **28.** 1,094 _____

Estimate the sum and difference using front-end estimation.

29. 387 + 604 **30.** 941 − 525

Use front-end estimation with adjustment to estimate each sum.

Example

4,489 + 2,768

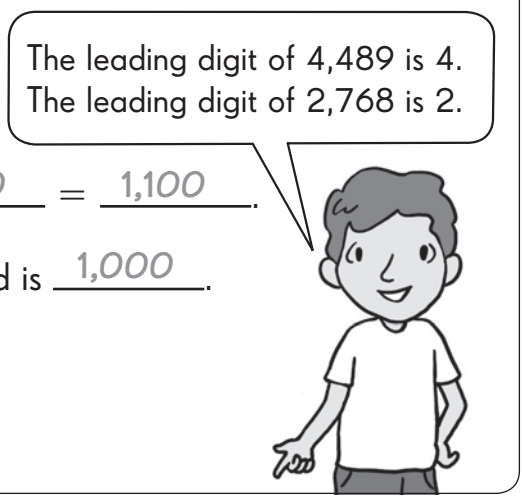
4,000 + 2,000 = 6,000

489 + 768 is about 400 + 700 = 1,100.

1,100 rounded to the nearest thousand is 1,000.

6,000 + 1,000 = 7,000

4,489 + 2,768 is about 7,000.



31. 5,528 + 3,476

_____ + _____ = _____

528 + 476 is about _____ + _____ = _____.

_____ rounded to the nearest thousand is _____.

_____ + _____ = _____

5,528 + 3,476 is about _____.

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Use front-end estimation with adjustment to estimate each sum.

32. 7,128 + 2,544

33. 4,500 + 7,652

34. 3,252 + 4,481 + 1,530

_____ + _____ + _____ = _____

252 + 481 + 530 is about _____ + _____ + _____

= _____.

_____ rounded to the nearest thousand is _____.

_____ + _____ = _____

3,252 + 4,481 + 1,530 is about _____.

35. 7,608 + 2,454 + 8,599

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Use front-end estimation with adjustment to estimate each difference.

Example

5,845 − 2,313

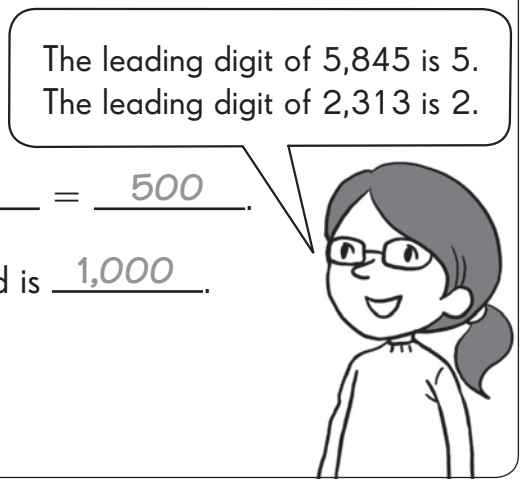
5,000 − 2,000 = 3,000

845 − 313 is about 800 − 300 = 500.

500 rounded to the nearest thousand is 1,000.

3,000 + 1,000 = 4,000

5,845 − 2,313 is about 4,000.



36. 9,720 − 4,138

_____ − _____ = _____

720 – 138 is about _____ − _____ = _____.

_____ rounded to the nearest thousand is _____.

_____ + _____ = _____

9,720 − 4,138 is about _____.

37. 7,947 − 2,350

_____ − _____ = _____

947 – 350 is about _____ − _____ = _____.

_____ rounded to the nearest thousand is _____.

_____ + _____ = _____

7,947 − 2,350 is about _____.

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Use front-end estimation with adjustment to estimate each difference.

38. 5,625 − 3,482

39. 7,420 − 5,033

40. 9,814 − 4,256

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Use front-end estimation with adjustment to estimate each difference.

Example

8,354 − 6,940

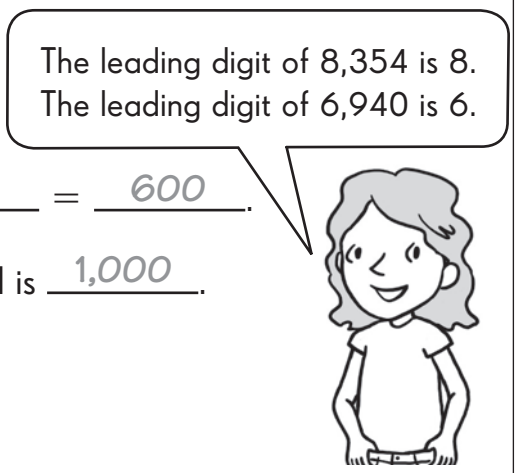
8,000 − 6,000 = 2,000

940 − 354 is about 900 − 300 = 600.

600 rounded to the nearest thousand is 1,000.

2,000 − 1,000 = 1,000

8,354 − 6,940 is about 1,000.



41. 9,267 − 3,739

_____ − _____ = _____

739 − 267 is about _____ − _____ = _____.

_____ rounded to the nearest thousand is _____.

_____ − _____ = _____

9,267 − 3,739 is about _____.

42. 8,327 − 4,682

_____ − _____ = _____

682 − 327 is about _____ − _____ = _____.

_____ rounded to the nearest thousand is _____.

_____ − _____ = _____.

8,327 − 4,682 is about _____.

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Use front-end estimation with adjustment to estimate each difference.

43. 6,259 − 3,795

44. 3,308 − 1,749

45. 8,427 − 6,973

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Name: _____ **Date:** _____

Estimate each product.

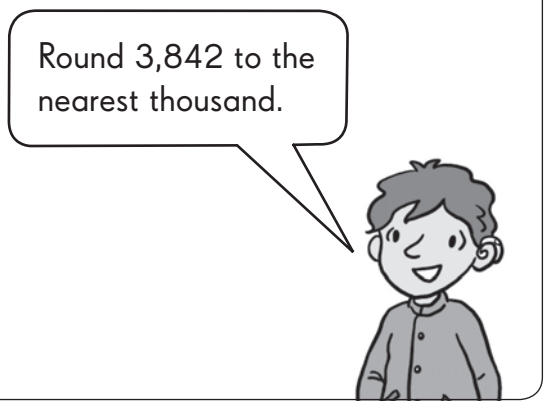
Example

3,842 × 5

3,842 rounds to 4,000.

4,000 × 5 = 20,000

3,842 × 5 is about 20,000.



46. 6,239 × 7

6,239 rounds to _____.

_____ × 7 = _____

6,239 × 7 is about _____.

47. 2,506 × 8

2,506 rounds to _____.

_____ × 8 = _____

2,506 × 8 is about _____.

48. 3,257 × 4

49. 8,753 × 6

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Estimate each quotient.

Example

4,387 ÷ 5

4,500 ÷ 5 = 900

4,387 ÷ 5 is about 900.

4,000 and 5 are **compatible numbers.** They are easy to divide. 4,500 and 5 are also compatible numbers. 4,387 is nearer to 4,500 than to 4,000. So, choose 4,500.

50. 3,508 ÷ 9

_____ ÷ 9 = _____

3,508 ÷ 9 is about _____.

51. 6,126 ÷ 7

_____ ÷ 7 = _____

6,126 ÷ 7 is about _____.

52. 2,362 ÷ 4

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