

# Math

## STANDARDS REVIEW

PROBABILITY



# PLACE VALUE THROUGH MILLIONS

Name ▶

Date ▶

hundred millions	ten millions	millions	hundred thousands	ten thousands	thousands	hundreds	tens	ones
$10^8$	$10^7$	$10^6$	$10^5$	$10^4$	$10^3$	$10^2$	$10^1$	$10^0$
3	1	0	4	0	9	7	5	8

Standard form:  
**310,409,758**

Think: The *value* of the digit 4 in the number is  $4 \times 10^5$  or  $4 \times 100,000$  or **400,000**

Expanded forms:  $(3 \times 10^8) + (1 \times 10^7) + (4 \times 10^5) + (9 \times 10^3) + (7 \times 10^2) + (5 \times 10^1) + (8 \times 10^0)$   
 $300,000,000 + 10,000,000 + 400,000 + 9,000 + 700 + 50 + 8$

Short word form: **310 million, 409 thousand, 758**

Word form: **three hundred ten million, four hundred nine thousand, seven hundred fifty-eight**

**A** Write each number in standard form.

- $400,000 + 30,000 + 7,000 + 600 + 90 + 5$  \_\_\_\_\_
- $3,000,000 + 80,000 + 5,000 + 70$  \_\_\_\_\_
- $(2 \times 10,000,000) + (7 \times 100,000) + (3 \times 100) + 8$  \_\_\_\_\_
- $(9 \times 10^5) + (4 \times 10^4) + (8 \times 10^2) + (6 \times 10^0)$  \_\_\_\_\_
- $(7 \times 10^6) + (3 \times 10^4) + (5 \times 10^1)$  \_\_\_\_\_
- forty-two million, seven hundred six thousand, twelve \_\_\_\_\_


**B** Write each number in expanded form.


- 57,392 \_\_\_\_\_
- 3,075,208 \_\_\_\_\_
- 605,730,042 \_\_\_\_\_

**C** Write each number in word form.

- 309,516 \_\_\_\_\_
- 5,067,803 \_\_\_\_\_
- 600,070,290 \_\_\_\_\_

# COLUMN ADDITION WITH WHOLE NUMBERS

Name 

Date 

**A** Find the sums. Show your work.

**Remember** To check your answer, add the numbers in the opposite order.

1.

$$\begin{array}{r} 23 \\ 14 \\ 32 \\ + 16 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 4,329 \\ 657 \\ 28 \\ + 6 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 330,406 \\ 210,262 \\ 126,110 \\ + 333,221 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 153 \\ 201 \\ 333 \\ + 162 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 3,506 \\ 604 \\ 8,002 \\ + 1,345 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 573 \\ 50,006 \\ 99 \\ 8,200 \\ 1,708 \\ + 40 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 806 \\ 513 \\ 499 \\ + 783 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 1,246 \\ 432 \\ 92,500 \\ 6,265 \\ + 98 \\ \hline \end{array}$$

**B** Rewrite each problem in vertical form in the spaces below. Then add.

9.  $251 + 6 + 4,732 + 38$

10.  $1,234 + 271 + 9,083 + 88$

11.  $47,035 + 746 + 1,509 + 30,303 + 3,030$

12.  $346 + 432,095 + 205,070 + 20,612$

9.	10.	11.	12.
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# SUBTRACT WHOLE NUMBERS

Name ▶

Date ▶

**A** Find the differences. Show your work.

**Remember** To check your answer, add.  
 $458 - 149 = 309 \rightarrow 309 + 149 = 458$

1.

$$\begin{array}{r} 845 \\ - 641 \\ \hline \end{array}$$

5.

$$\begin{array}{r} 792 \\ - 527 \\ \hline \end{array}$$

9.

$$\begin{array}{r} 5,734 \\ - 1,679 \\ \hline \end{array}$$

2.

$$\begin{array}{r} 6,479 \\ - 2,345 \\ \hline \end{array}$$

6.

$$\begin{array}{r} 8,629 \\ - 7,585 \\ \hline \end{array}$$

10.

$$\begin{array}{r} 23,421 \\ - 22,836 \\ \hline \end{array}$$

3.

$$\begin{array}{r} 65,896 \\ - 43,406 \\ \hline \end{array}$$

7.

$$\begin{array}{r} 82,736 \\ - 15,475 \\ \hline \end{array}$$

11.

$$\begin{array}{r} 397,542 \\ - 267,890 \\ \hline \end{array}$$

4.

$$\begin{array}{r} 358,945 \\ - 26,833 \\ \hline \end{array}$$

8.

$$\begin{array}{r} 381,591 \\ - 58,135 \\ \hline \end{array}$$

12.

$$\begin{array}{r} 2,513,135 \\ - 1,217,712 \\ \hline \end{array}$$

**B** Rewrite each problem in vertical form in the spaces below. Then subtract.

13. 459 minus 253

17.  $78,923 - 789$

14.  $75,463 - 9,345$

18.  $476,895 - 66,666$

15. 2,321 less 909

19.  $124,455 - 23,456$

16.  $62,425 - 59,817$

20.  $543,456 - 478,874$

13.	14.	15.	16.
17.	18.	19.	20.

# DIVIDE WHOLE NUMBERS BY 1-DIGIT NUMBERS

Name ▶

Date ▶

**A** Find the quotients. Show your work.

**Remember** To check your answer, multiply the divisor by the quotient and add the remainder.

1.

$$4 \overline{)952}$$

4.

$$7 \overline{)9,312}$$

7.

$$9 \overline{)70,803}$$

2.

$$3 \overline{)815}$$

5.

$$8 \overline{)5,817}$$

8.

$$5 \overline{)501,704}$$

3.

$$6 \overline{)512}$$

6.

$$5 \overline{)83,456}$$

**B** Rewrite each problem in  $\overline{)}$  form in the spaces below. Then divide.

9. 473 divided by 9

11.  $83,484 \div 6$

10.  $9,305 \div 7$

12.  $172,630 \div 8$

9.	10.	11.	12.
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# DIVIDE WHOLE NUMBERS BY 2-DIGIT NUMBERS

Name ▶

Date ▶

**A** Find the quotients. Show your work.

**Remember** To check your answer, multiply the quotient by the divisor and add the remainder.

1.

$$60 \overline{) 786}$$

4.

$$71 \overline{) 903}$$

7.

$$96 \overline{) 32,005}$$

2.

$$90 \overline{) 3,102}$$

5.

$$47 \overline{) 1,565}$$

8.

$$84 \overline{) 180,304}$$

3.

$$40 \overline{) 93,640}$$

6.

$$68 \overline{) 3,646}$$

**B** Rewrite each problem in  $\overline{)}$  form in the spaces below. Then divide.

9.  $8,750 \div 70$

11.  $20,000 \div 62$

10.  $3,902 \div 92$

12.  $188,625 \div 62$

9.	10.	11.	12.
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# ROUND WHOLE NUMBERS

Name

Date

**A** Round each number to the nearest ten and hundred.

Number	nearest ten	nearest hundred
1. 28		
2. 95		
3. 833		
4. 6,515		
5. 12,704		
6. 453,450		

**Remember**  
 Look for the digit to the right of the place to be rounded. If the digit is 0, 1, 2, 3, or 4 round *down*. If the digit is 5, 6, 7, 8, or 9 round *up*.

**B** Round each number to the nearest thousand, ten thousand, and hundred thousand.

Number	nearest thousand	nearest ten thousand	nearest hundred thousand
7. 609			
8. 5,555			
9. 34,904			
10. 85,481			
11. 453,550			
12. 625,605			


**C** Round each number to the nearest million.


13. 5,625,605 \_\_\_\_\_      15. 66,666,666 \_\_\_\_\_  
 14. 9,808,808 \_\_\_\_\_      16. 283,503,000 \_\_\_\_\_

**D** What is the least and greatest number that rounds to each number?

17. 600 \_\_\_\_\_ ; \_\_\_\_\_      18. 30,000 \_\_\_\_\_ ; \_\_\_\_\_

# ESTIMATE SUMS AND DIFFERENCES

Name 

Date 

**A** Round each number to the nearest ten. Then add or subtract.

1.  $73 + 86$

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

3.  $38 + 75$

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

2.  $94 - 69$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

4.  $343 - 96$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

**B** Round each number to the nearest hundred. Then add or subtract.

5.  $162 + 243$

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

7.  $2,406 - 793$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

6.  $735 - 461$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

8.  $837 + 975$

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

**C** Round to the nearest ten, hundred, or thousand. Then add or subtract.

9.  $85 + 63$

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

13.  $2,888 + 1,039$

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_

10.  $461 - 195$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

14.  $5,050 - 3,954$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

11.  $1,278 - 893$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

15.  $4,321 - 967$

\_\_\_\_\_ - \_\_\_\_\_ = \_\_\_\_\_

12.  $905 + 87$


\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_


16.  $25,075 + 9,792$

\_\_\_\_\_ + \_\_\_\_\_ = \_\_\_\_\_



# ESTIMATE PRODUCTS AND QUOTIENTS

Name 

Date 

**A** Round the numbers to the nearest ten, hundred, or thousand. Then multiply.

1.  $443 \times 9$

\_\_\_\_\_  $\times$  9 = \_\_\_\_\_

3.  $293 \times 82$

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

2.  $7 \times 8,750$

7  $\times$  \_\_\_\_\_ = \_\_\_\_\_

4.  $6,666 \times 48$

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

**B** Round each number to the nearest ten, hundred, or thousand. Then divide.

5.  $392 \div 8$

\_\_\_\_\_  $\div$  8 = \_\_\_\_\_

7.  $476 \div 59$

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

6.  $5,505 \div 7$

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

8.  $23,987 \div 43$

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

**C** Estimate each product and quotient.

9.  $8 \times 813$

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

13.  $58 \times 602$

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

10.  $3,712 \div 9$

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

14.  $32 \overline{) 5,867}$

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

11.  $439 \div 71$

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

15.  $78 \overline{) 71,234}$

\_\_\_\_\_  $\div$  \_\_\_\_\_ = \_\_\_\_\_

12.  $7,036 \times 47$

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

16.  $9,876 \times 53$

\_\_\_\_\_  $\times$  \_\_\_\_\_ = \_\_\_\_\_

# ORDER OF OPERATIONS WITH WHOLE NUMBERS

Name ▶

Date ▶

**A** Simplify and solve.

1.  $25 - (4 \times 3) = \underline{\hspace{2cm}}$

4.  $(6 + 3) \times (8 - 5) = \underline{\hspace{2cm}}$

2.  $(35 \div 7) + 9 = \underline{\hspace{2cm}}$

5.  $(12 + 4) \div (2 \times 2) = \underline{\hspace{2cm}}$

3.  $40 - (3 \times 8) + 6 = \underline{\hspace{2cm}}$

**B** Write which operation to do first. Then simplify and solve.

6.  $4 + 5 \times 3 \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

7.  $2 \times 4 - 6 \div 2 \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

8.  $10 + 4 - 12 \div 4 \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

9.  $15 \times 10 \div 5 \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

10.  $6 + 7 \times 9 - 10 \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

**C** Write which operation to do first. Then simplify and solve.

11.  $6 \times (7 + 3) \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

12.  $6 \times 7 + 3 \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

13.  $(6 - 3) \times (2 + 4) \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

14.  $6 - 3 \times 2 + 4 \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$

**D** Write parentheses to make each equation true.

15.  $20 \div 8 - 3 = 4$

18.  $3 + 4 \times 8 - 7 = 49$

16.  $6 + 3 \times 7 = 63$

19.  $8 \times 3 - 1 \div 4 = 4$

17.  $10 + 2 \div 2 = 6$

20.  $14 - 3 + 3 \times 2 = 2$

## Remember

- Do operations in parentheses first.
- If no parentheses, remember:  
**My Dear Aunt Sally.**

Multiply and Divide from left to right before you Add and Subtract from left to right.