Multiplication Puzzles



TIME

50

200

400

SRB 102

Solve the multiplication puzzles mentally. Fill in the blank boxes.

Examples:

50

7,000

	*	300	2,000		*	80
	2	600	4,000		4	320
	3	900	<i>4,000</i> <i>6,000</i>		8	640
\bigcirc				0		1
(1)	*	70	400	(2)	*	5
	8				80	
	9				600	
0						
3	*	9	4	(4)	*	÷
	-		. 2			

)	*	5	7	
	80			
	600			

D	*		600
	7	3,500	
		-	2,400

5	*		8
	30	270	
			5,600

] ھ	*	400	
		3,600	
	20		10,000

Make up and solve some puzzles of your own.



8	*	

Practice

Solve using U.S. traditional addition or subtraction.

(9)

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- 321 + 869 = _____
- (10) 5,401 752 = _____

- (11)
 - 4,568 + 8,735 =
- (12) 9,156 4,584 = _____

Finding Estimates and Evaluating Answers

		~~
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SRB

82-89

Write an estimate and show your thinking. Solve using a calculator. Check to see that your answer is reasonable.

Alice sleeps an average of 9 hours per night. A cat can sleep up to 20 hours per day. About how many more hours does a cat sleep in 1 month than Alice?

Estimate: ____

Answer: About ______ more hours per month

Is your answer reasonable? _____ How do you know? _____

Koalas sleep about 22 hours a day. Pandas sleep about 10 hours a day. About how many more hours does a typical koala sleep in 1 year than a typical panda?

Estimate:

Answer: About _____ more hours per year

Is your answer reasonable? _____ How do you know? _____

There are 30 Major League Baseball (MLB) teams and 32 National Football League (NFL) teams. The expanded roster for MLB teams is 40 players and it is 53 for NFL teams. How many more players are in the NFL than in the MLB?

Estimate:

Answer: _____ more players

Is your answer reasonable? _____ How do you know? _____

Practice

Round to the nearest thousand.

45,493 _____

Round to the nearest ten-thousand,

1,409,836 _____

4

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(5)

101

Partitioning Rectangles



TIME



4 * 35 = _____ (1)

(3)**9** * 49 =

Practice

Solve using U.S. traditional addition or subtraction.

- (4)
- 9,289 + 1,476 = _____
- 6 5,619 + 5,999 = _____
- (5) 6,503 3,547 = _____
- 5,005 2,446 = _____ (7)

Converting Liquid Measures

Home Link 4-4

Complete the table.

1	Liters (L)	Milliliters (mL)		
	8			
	15			
	20			
	25			

Mrs. Wong's students kept track of how much water they used to water the classroom plants. The first week they used 24 liters, and the second week they used 17 liters. How many more milliliters did they use the first week than the second?

Answer: _____ mL

(3) My fish tank holds 64 liters of water. My neighbor's tank holds 58 liters of water. How many milliliters is that combined?

Answer: _____ mL

Mrs. Reyes filled her kiddie pool with 83 liters of water. Her children added 2,000 mL of water to the pool. How many liters of water are in the pool now?

Answer:		
---------	--	--

Practice

Solve using U.S. traditional addition or subtraction.



4,638 + 9,807 =

(7) 55

- 55,812 + 6,529 =
- (8) 98,001 7,443 = _____

(6) 7,322 - 3,741 =

Using Multiplication

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Ms. Patel wants to keep her classroom calculators in a box that is 25 centimeters long, 15 centimeters wide, and 5 centimeters tall. The calculators measure 12 centimeters long, 7 centimeters wide, and 1 centimeter tall. How many calculators can Ms. Patel fit in the box?





(1) Solve this problem. Show or explain how you solved the problem.

2

Show or explain how you know your answer makes sense.

Practice

(3)

(5)

Sketch a rectangle or use partial products to solve.

48 * 9 = _____ 27 * 4 = _____ 43 * 3 = _____ 81 * 5 = _____

Multiplying in Parts

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In the example, a rectangle was drawn to represent the problem. Then partial-products multiplication was used to record the work in a simpler way. Use partial-products multiplication to solve Problems 1 and 2.

Example:

Partitioned Rectangle

Partial-Products Multiplication

SRB

103-104, 106



48 3

	*	4	3	2 7
	2	- L	-	
		2	?/	0
+	•		/	4
	З,	0	2	4

	6	5	3
*			8

Practice

1

Write the numbers in expanded form.

3	905,603						
4	589,043					ſ.	
(5)	2,599,002 _					2	
6	8 003 952						

2