

Everyday Mathematics

Grade 4

Unit 5

Name: _____

1. Circle to the number closest to the sum. Write a number model for the estimate.

$$221 + 254$$

600 500 400 300

Number model: _____

2. Circle the number that is closest to the sum. Write a number model for the estimate.

$$477 + 484 + 695$$

1,600 1,700 1,800 1,550

Number model: _____

Multiply. Use the partial-products algorithm. Show your work.

3. $9 * 84 =$ _____

4. $35 * 6 =$ _____

5. Use the partial-products algorithm to multiply.

$$588 * 2 =$$

6. Multiply. Use the partial-products algorithm. Show your work.

$$23 * 12 = \underline{\hspace{2cm}}$$

7. Add.

a. $9.1 + 1.1 = \underline{\hspace{2cm}}$

b. $10.3 + 1.9 = \underline{\hspace{2cm}}$

8. Subtract.

a. $10.72 - 8.27 = \underline{\hspace{2cm}}$

b. $9.2 - 2.7 = \underline{\hspace{2cm}}$

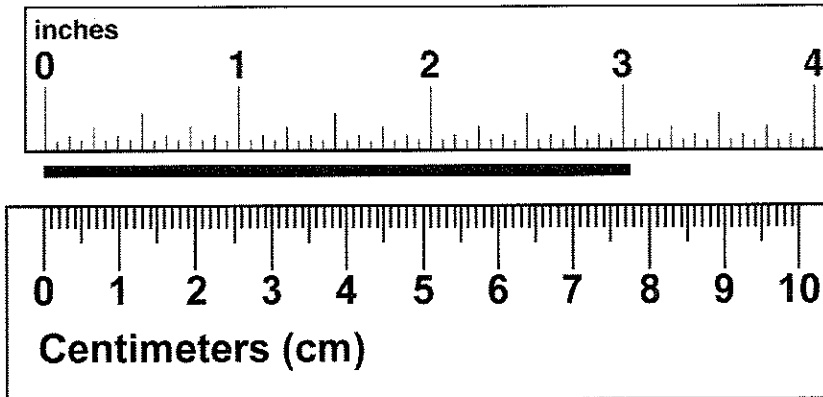
9. Add.

$$18.75 + 6.32$$

10. Explain the mistake that Hannah made when she solved this problem:

$$\begin{array}{r} 0.07 \\ - 0.6 \\ \hline 0.01 \end{array}$$

11. a. How long is this line segment to the nearest $\frac{1}{4}$ inch?
 b. How long is this line segment to the nearest half centimeter?



12. Complete the table.

Rule	in	out
$\times 5$	3	
		25
		20
	7	
		30
	2	

13. Complete the table.

Rule	in	out
$\times 70$	7	
		630
		140
	5	
		420
	3	

14. Find the rule and complete the table.

Rule 	in	out
	9	
	8	240
	5	150
	6	
		90
	4	

-
15. Estimate whether the the product will be in the tens, hundreds, thousands or more. Circle your choice. Write a number model to show how you got your estimate. Then calculate the exact answer.

$$27 * 67$$

10s	100s	1,000s	10,000s
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a. Number model: _____

b. Exact answer: _____

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16. Estimate whether the answer to the number story will be in the tens, hundreds, thousands or more. Circle your choice. Write a number model to show how you got your estimate. Then calculate the exact answer.

There are an average of 49 jelly beans in a box. Jerome gave out 63 boxes of jelly beans to fourth graders on his birthday. How many jelly beans did Jerome give out?

$$49 * 63 = \underline{\hspace{2cm}}$$

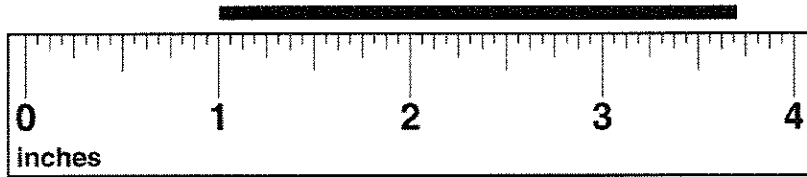
10s	100s	1,000s	10,000s
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a. Number model: _____

b. Exact answer: _____

17. If an average of 10,000 babies were born each day, answer the following questions.
- About how many babies would be born in a week?
 - About how many babies would be born in a month?
 - Would more or less than a million babies be born in a year?
- Explain your answers.
-

18. Suni measured the line segment shown below. She said, "The line segment is $3\frac{3}{4}$ inches long." Do you think Suni measured correctly? Explain your answer.



500
[1] Number model: $200 + 300 = 500$

1,700
[2] Number model: $500 + 500 + 700 = 1,700$

[3] 756

[4] 210

[5] 1,176

[6] 276

a. 10.2
[7] b. 12.2

a. 2.45
[8] b. 6.5

[9] 25.07

Sample answer: Hannah did not line up the places correctly. She subtracted 6 tenths
[10] from 7 hundredths and got 1 hundredth, which is not correct.

a. 3 inches
[11] b. 8 centimeters

Rule	in	out
$\times 5$	3	15
	5	25
	4	20
	7	35
	6	30
	2	10

[12]

Rule	in	out
$\times 70$	7	490
	9	630
	2	140
	5	350
	6	420
	3	210

[13]

Rule	in	out
$\times 30$	9	270
	8	240
	5	150
	6	180
	3	90
	4	120

[14]

a. Number model: $30 * 70 = 2,100$

[15] b. Exact answer: 1809

Number model: $50 * 60 = 3000$

[16] Exact answer: 3,087

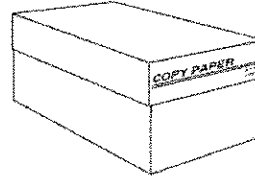
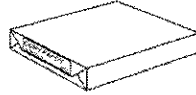
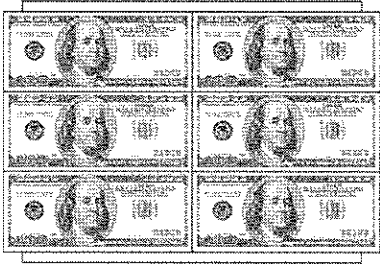
- a. 70,000
- b. range: 280,000 to 310,000
- c. more

[17] Explanations will vary. _____

Sample answer: No, Suni did not make sure the 0-mark of the ruler was at the end of
[18] the line. _____

1. Walking Away with a Million Dollars

You will need the following information to solve the problem below:



You can cover a sheet of paper with about six \$100 bills.

There are 500 sheets in one ream of paper.

There are 10 reams in one carton.

Imagine that you have inherited one million dollars. The bank has only \$600,000 in \$100 bills. The bank gives you the rest of the money in \$50 bills and \$20 bills. Your suitcase will hold as much as 1 carton of paper.

Will one million dollars fit in your suitcase?

Show all your work. Explain what you did to solve the problem.

Sample answer: First I found out how many \$100 bills I had. \$600,000 is 6,000 \$100 bills. Six bills fit on a sheet of paper, so 6,000 bills take up the same amount of space as 1,000 sheets of paper. That's two reams of paper. I have space for 8 more reams. Then I subtracted \$600,000 from \$1,000,000 to find out how much the bank owes me. I still need \$400,000. If they give me \$300,000 in \$50 bills, that's another 6,000 bills. So that's another 2 reams of paper. I have room for 6 more reams. I still need \$100,000. If the bank gives me the rest in \$20 bills, that's 5,000 bills. This is less than the number of \$100 bills I have, so that is less

[1] than 2 reams. So one million dollars will fit in my suitcase.