

Super-Journal Week 2:2

Every night, you should be reading at least 30 minutes of whatever book you have checked out from your assigned reading list. Tape or glue (but do not staple) this sheet into your Super-Journal on the left-side page. Fill in the table below *every day* by recording the required data.

Day	Title	Start Pg.	End Pg.	Parent Sign.
Monday				
Tuesday				
Wednesday				
Thursday				
Friday				
Saturday				
Sunday				

On the right-side page of your Super-Journal, answer two of the questions below throughout the week. Be sure that the questions you choose to answer go with the appropriate type of book (Fiction or Nonfiction). The Super-Journal is due on the first day after the weekend (usually Monday). To earn credit for your journal entry, you *must* respond in at least five complete sentences per response and use **specific evidence from the text to support your claim** based on what you've read this week.

FICTION

1. What conflict or problem do your character/characters face in this part of your story?
2. Summarize the story in your own words.
3. How did the characters solve or respond to the conflict or problem?

NONFICTION

1. What is the main idea of the text? (Main Idea = the topic + the point)
2. What details or evidence did you use to find the main idea?

RL.1.2/RI.1.2

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RL.1.2/RI.1.2

Lesson 5-1 • Extend Thinking

Estimate Products of Multi-Digit Factors

Name _____

Estimate the following products to determine which product is greater. The first one is done for you.

Problem	Product A	< or >	Product B
1.	31×262 30×260 7,800	>	22×299 20×300 6,000
2.	53×199		59×106
3.	192×58		149×91
4.	503×67		493×61
5.	812×21		783×29
6.	79×643		93×552

7. Bill has 31×192 dollars and Marie has 21×249 dollars? Who has more money? Explain your answer.

Estimate Products of Multi-Digit Factors

Name _____

Review

You can multiply with multiples of 10 to help when estimating products of multi-digit factors.

Estimate the product 52×303 .

$$\begin{aligned} 50 \times 300 &= 5 \times 10 \times 3 \times 100 \\ &= 5 \times 3 \times 1,000 \\ &= 15 \times 1,000 \\ &= 15,000 \end{aligned}$$

Estimate the product using rounded numbers or multiples of 10.

1. 713×82

2. $5,585 \times 5$

3. 205×11

4. 398×61

5. 352×27

6. $7,258 \times 8$

Estimate the product presented in the word problem.

7. The classroom library has 12 shelves. Each shelf holds 53 books. About how many books does the classroom library have in all? Show your work.

Name _____

Date _____

2

-digit multiplication - Box Method

Work out the answers to these multiplication questions using the box method.

$27 \times 18 = 486$

	20	7	
10	200	70	200
			70
8	160	56	160
			+ 56
			486

$18 \times 17 = \underline{\hspace{2cm}}$

$21 \times 19 = \underline{\hspace{2cm}}$

$29 \times 15 = \underline{\hspace{2cm}}$

$28 \times 24 = \underline{\hspace{2cm}}$

$17 \times 12 = \underline{\hspace{2cm}}$

Name _____

Due _____
Date _____

~~9/15/21~~

2

2-digit multiplication - Box Method

Work out the answers to these multiplication questions using the box method.

$19 \times 3 = 57$

	10	9	
3	30	27	

$$\begin{array}{r} 30 \\ + 27 \\ \hline 57 \end{array}$$

$17 \times 9 = \underline{\quad}$

--	--	--

$19 \times 5 = \underline{\quad}$

--	--	--

$22 \times 8 = \underline{\quad}$

--	--	--

$25 \times 4 = \underline{\quad}$

--	--	--

$18 \times 7 = \underline{\quad}$

--	--	--

$29 \times 3 = \underline{\quad}$

--	--	--

$15 \times 6 = \underline{\quad}$

--	--	--

Lesson 5-2 • Reinforce Understanding

Relate Partial Products to an Algorithm

Name _____

Review

Below is a way to combine the partial products with an algorithm.

$$\begin{array}{r}
 983 \\
 \times \quad 5 \\
 \hline
 15 \quad 3 \text{ and the } 5 \text{ are in the ones place. Multiply } 3 \times 5. \\
 400 \quad 8 \text{ is in the tens place. Multiply } 80 \times 5. \\
 + 4,500 \quad 9 \text{ is in the hundreds place. Multiply } 900 \times 5. \\
 \hline
 4,915 \quad \text{Add } 15, 400, \text{ and } 4,500 \text{ for the product.}
 \end{array}$$

$$\begin{array}{r}
 \overset{41}{983} \\
 \times \quad 5 \\
 \hline
 4,915
 \end{array}$$

Here it is using an algorithm.

Find the products of the equations first using partial products and then using an algorithm. Choose the correct answer.

- | | |
|---|---|
| <p>1. $512 \times 8 =$ _____</p> <p>A. 4,106</p> <p>B. 4,096</p> <p>C. 4,086</p> <p>D. 4,196</p> | <p>2. $2,604 \times 5 =$ _____</p> <p>A. 13,000</p> <p>B. 10,020</p> <p>C. 13,030</p> <p>D. 13,020</p> |
|---|---|

Find the products of the equations using an algorithm.

- | | |
|---|---|
| <p>5. $116 \times 9 =$ _____</p> <p>6. $289 \times 4 =$ _____</p> | <p>7. $3,752 \times 5 =$ _____</p> <p>8. $2,974 \times 3 =$ _____</p> |
|---|---|

Lesson 5-2 • Extend Thinking

Relate Partial Products to an Algorithm

Name _____

Break down each problem into a more manageable problem. Use an algorithm to find any products you use. The first problem has been started for you.

1. To find the product 876×12 , I could find the product 876×6 and multiply the result by _____.

$$876 \times 12 = \underline{\hspace{2cm}}$$

2. To find the product 439×24 , I could find the product $439 \times \underline{\hspace{2cm}}$ and multiply the result by _____.

$$439 \times 24 = \underline{\hspace{2cm}}$$

3. To find the product 517×56 , I could find the product $517 \times \underline{\hspace{2cm}}$ and multiply the result by _____.

$$517 \times 56 = \underline{\hspace{2cm}}$$

4. To find the product 123×35 , I could find the product $123 \times \underline{\hspace{2cm}}$ and multiply the result by _____.

$$123 \times 35 = \underline{\hspace{2cm}}$$

Use Partial Products to Multiply Multi-Digit Factors

Name _____

Review

Decompose the factors by place value. Use this to help set up your partial products.

$$\begin{aligned}
 17 \times 385 &= (10 + 7) \times (300 + 80 + 5) \\
 &= 10 \times 300 + 10 \times 80 + 10 \times 5 + 7 \times 300 + 7 \times 80 + \\
 &\quad 7 \times 5 \\
 &= 3,000 + 800 + 50 + 2,100 + 560 + 35 \\
 &= 6,545
 \end{aligned}$$

Use partial products to fill in the blanks and solve these equations.

$$\begin{aligned}
 1. \quad 19 \times 92 &= (10 + \underline{\quad}) \times (\underline{\quad} + 2) \\
 &= 10 \times \underline{\quad} + 10 \times 2 + 9 \times \underline{\quad} + 9 \times \underline{\quad} \\
 &= \underline{\quad} + 20 + \underline{\quad} + 18 \\
 &= \underline{\quad}
 \end{aligned}$$

$$\begin{aligned}
 2. \quad 512 \times 21 &= (500 + \underline{\quad} + \underline{\quad}) \times (\underline{\quad} + 1) \\
 &= 500 \times \underline{\quad} + 500 \times 1 + 10 \times \underline{\quad} + 10 \times \underline{\quad} \\
 &\quad + 2 \times \underline{\quad} + 2 \times \underline{\quad} \\
 &= 10,000 + \underline{\quad} + \underline{\quad} + 10 + 40 + \underline{\quad} \\
 &= \underline{\quad}
 \end{aligned}$$

Use partial products to solve these equations.

3. $72 \times 165 = \underline{\hspace{2cm}}$

5. $275 \times 36 = \underline{\hspace{2cm}}$

4. $37 \times 205 = \underline{\hspace{2cm}}$

6. $812 \times 68 = \underline{\hspace{2cm}}$

Lesson 5-3 • Extend Thinking

Use Partial Products to Multiply Multi-Digit Factors

Name _____

Use the partial products to determine the factors in the equation.

1.

$$\begin{array}{r} \underline{\quad\quad\quad} \\ \times \quad\quad\quad \\ \hline \end{array}$$

6,000 = _____
300 = _____
180 = _____
800 = _____
40 = _____
24 = _____

× 200
× _____
× _____
× 200
× _____
× _____

2.

$$\begin{array}{r} \underline{\quad\quad\quad} \\ \times \quad\quad\quad \\ \hline \end{array}$$

5,000 = _____
800 = _____
10 = _____
3,500 = _____
560 = _____
7 = _____

× 500
× _____
× _____
× 500
× _____
× _____

Name: _____

Partial Products

$$\begin{array}{r} 1. \quad 32 \\ \quad \times 19 \\ \hline \end{array} \begin{array}{l} = 9 \times 2 \\ = 9 \times 30 \\ = 10 \times 2 \\ + \quad \quad = 10 \times 30 \end{array}$$

$$\begin{array}{r} 5. \quad 82 \\ \quad \times 45 \\ \hline \end{array} \begin{array}{l} = _ \times _ \\ = _ \times _ \\ = _ \times _ \\ + \quad \quad = _ \times _ \end{array}$$

$$\begin{array}{r} 2. \quad 97 \\ \quad \times 51 \\ \hline \end{array} \begin{array}{l} = 1 \times 7 \\ = 1 \times 90 \\ = 50 \times 7 \\ + \quad \quad = 50 \times 90 \end{array}$$

$$\begin{array}{r} 6. \quad 23 \\ \quad \times 44 \\ \hline \end{array} \begin{array}{l} = _ \times _ \\ = _ \times _ \\ = _ \times _ \\ + \quad \quad = _ \times _ \end{array}$$

$$\begin{array}{r} 3. \quad 27 \\ \quad \times 31 \\ \hline \end{array} \begin{array}{l} = _ \times _ \\ = _ \times _ \\ = _ \times _ \\ + \quad \quad = _ \times _ \end{array}$$

$$\begin{array}{r} 7. \quad 53 \\ \quad \times 26 \\ \hline \end{array} \begin{array}{l} = _ \times _ \\ = _ \times _ \\ = _ \times _ \\ + \quad \quad = _ \times _ \end{array}$$

$$\begin{array}{r} 4. \quad 13 \\ \quad \times 25 \\ \hline \end{array} \begin{array}{l} = _ \times _ \\ = _ \times _ \\ = _ \times _ \\ + \quad \quad = _ \times _ \end{array}$$

$$\begin{array}{r} 8. \quad 12 \\ \quad \times 34 \\ \hline \end{array} \begin{array}{l} = _ \times _ \\ = _ \times _ \\ = _ \times _ \\ + \quad \quad = _ \times _ \end{array}$$

Name _____

Date _____

3

digit multiplication Box Method

Work out the answers to these multiplication questions using the box method.

$218 \times 44 = 9592$

	200	10	8	
40	8000	400	320	8000 400 320 800 40 32 + 9592
4	800	40	32	

$121 \times 88 = \underline{\hspace{2cm}}$

$175 \times 46 = \underline{\hspace{2cm}}$

$260 \times 78 = \underline{\hspace{2cm}}$

$218 \times 34 = \underline{\hspace{2cm}}$

$197 \times 53 = \underline{\hspace{2cm}}$

Multiply Multi-Digit Factors Fluently

Name _____

Solve each problem using a strategy of your choosing. Then write the products in order from least to greatest.

$$\begin{array}{r} 1. \quad 412 \\ \times \quad 16 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 1,756 \\ \times \quad 7 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 988 \\ \times \quad 37 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 807 \\ \times \quad 35 \\ \hline \end{array}$$

The products in order from least to greatest are _____, _____, and _____.

Multiply Multi-Digit Factors Fluently

Name _____

Review

Below is a way to multiply using partial products.

$$\begin{array}{r}
 983 \\
 \times 37 \\
 \hline
 6,881 \quad \text{Multiply } 983 \times 7. \\
 + 29,490 \quad \text{Multiply } 983 \times 30. \\
 \hline
 36,371 \quad \text{Add the partial products.}
 \end{array}$$

Find the product of each equation using partial products.

1.
$$\begin{array}{r}
 562 \\
 \times 14 \\
 \hline
 \end{array}$$

2.
$$\begin{array}{r}
 173 \\
 \times 26 \\
 \hline
 \end{array}$$

Find the product of each equation using an algorithm.

5.
$$\begin{array}{r}
 210 \\
 \times 34 \\
 \hline
 \end{array}$$

7.
$$\begin{array}{r}
 467 \\
 \times 55 \\
 \hline
 \end{array}$$

6.
$$\begin{array}{r}
 632 \\
 \times 18 \\
 \hline
 \end{array}$$

8.
$$\begin{array}{r}
 1,786 \\
 \times 62 \\
 \hline
 \end{array}$$