

Dear Rising Sixth Graders,

Next year you are it: “The Cream of the Crop,” “Top of the Heap,” “King (and Queen) of the Hill!” In order to deserve your exalted status, you must keep your mind sharp and your brain engaged. Here are some activities to do this summer that will make your transition to sixth grade easier.

**Language Arts:**

**Read!** For your summer reading, you are required to read two books this summer. Please see the “Rising Sixth Grade Summer Reading” for the instructions. *Book One* is one book that all of you are asked to read and annotate. We will be completing a graded in-class project on this book when you return. For *Book Two*, you are able to pick one of the books from the list. It’s your choice! After you have read this book, please complete and submit the Google Form on the book before “Meet Your Teacher Day”. Even though only two books are required, the more books you read over the summer the better your comprehension and vocabulary will become...so keep reading!

**Write!** Keep a journal. Write postcards and letters to friends during your travels. You can even write down your goals and ambitions for next year. A great way to practice both reading and math is to get in the kitchen and follow a recipe. Mom or Dad can help you create a delicious treat as you sharpen your sequencing, measuring, and presentation skills!

**Social Studies:**

Now that you have traveled the United States, it’s time to look to the world. You should become familiar with maps of Europe and Asia, read the newspaper, and watch the news. Knowing about the world of today will help you appreciate great civilizations of the past.

**Math:**

A summer math packet for sixth grade will be made available to you. Included are problems involving concepts that were taught in fifth grade at SJEDS. We would like these problems solved, showing work, and submitted to your teacher on the first day of school. Please attach all work and extra papers. This will be a great review before sixth grade.

The packets will be assessed for completion and checked in class. They will not be formally graded with a letter grade; rather, assessed for completion. We also strongly encourage review of all basic multiplication and division facts.

We are looking forward to having you in sixth grade next year! We wish you a happy and healthy summer and look forward to seeing you in August!

Sincerely,  
Your Sixth Grade Teachers

## Rising 6<sup>th</sup> Grade Summer Reading

Students in rising sixth grade are asked to read TWO books this summer to help instill a love for reading and to keep their reading skills sharp over the summer break.

### Book #1:

All students are required to read and annotate the following book this summer. Please use the attached sheet to guide you on how to annotate. The first week of school you will be taking an AR test on this book and completing a graded in-class project. Bring your annotated book on the first day of school.

### Rising 6th Grade Required Reading Book:

<i>Loser</i>	Spinelli, Jerry	AR Level: 4.3
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### Book #2:

Please choose one book from the list below. After you read the book, please complete and submit the Google Form entitled “Summer Reading: Book #2”. The link for this form is found below. This form must be completed before “Meet Your Teacher Day” on August 14. You will be completing an AR test on the book you read the first week of school. Please click here for the “Summer Reading: Book #2 Link: [Google Form Link](#)

### Rising 6th Grade Books: (Please choose one.)

<i>100 Year Old Secret (Sherlock Files) (Book 1)</i>	Barrett, Tracy	AR Level: 4.4
<i>IQ: Independence Hall (Book 1)</i>	Smith, Roland	AR Level: 4.5
<i>A Long Walk to Water</i>	Park, Linda Sue	AR Level: 5.0
<i>The Egypt Game (Book 1)</i>	Snyder, Zilpha Keatley	AR Level: 6.4
<i>When You Reach Me</i>	Snead, Rebecca	AR Level: 4.5

Please see attached for instructions on how to annotate your novel.



## Multiplying Fractions

$$\begin{array}{l}
 \frac{3}{4} \times \frac{1}{6} = \frac{3 \times 1}{4 \times 6} \xrightarrow{\text{Multiply the numerators.}} \frac{2}{7} \times \frac{7}{10} = \frac{2 \times 7}{7 \times 10} \\
 = \frac{3}{24} \xrightarrow{\text{Multiply the denominator.}} = \frac{14}{70} \\
 = \frac{1}{8} \xrightarrow{\text{Reduce to simplest form.}} = \frac{1}{5}
 \end{array}$$

Multiply. Write answers in simplest form.

1.  $\frac{1}{3} \times \frac{2}{9} =$  \_\_\_\_\_

$\frac{1}{8} \times \frac{2}{5} =$  \_\_\_\_\_

$\frac{3}{7} \times \frac{3}{4} =$  \_\_\_\_\_

2.  $\frac{5}{6} \times \frac{3}{8} =$  \_\_\_\_\_

$\frac{5}{9} \times \frac{3}{7} =$  \_\_\_\_\_

$\frac{6}{11} \times \frac{1}{6} =$  \_\_\_\_\_

3.  $\frac{3}{5} \times \frac{2}{3} =$  \_\_\_\_\_

$\frac{3}{7} \times \frac{1}{3} =$  \_\_\_\_\_

$\frac{1}{6} \times \frac{8}{9} =$  \_\_\_\_\_

4.  $\frac{7}{10} \times \frac{4}{5} =$  \_\_\_\_\_

$\frac{7}{8} \times \frac{2}{7} =$  \_\_\_\_\_

$\frac{1}{2} \times \frac{5}{11} =$  \_\_\_\_\_

5.  $\frac{5}{7} \times \frac{7}{9} =$  \_\_\_\_\_

$\frac{3}{4} \times \frac{9}{10} =$  \_\_\_\_\_

$\frac{7}{12} \times \frac{7}{11} =$  \_\_\_\_\_

# Inserting Zeros for Addition and Subtraction

You may insert 0s to help you add.

$$\begin{array}{r} 0.6 \\ 0.392 \\ + 1.23 \\ \hline \end{array} \qquad \begin{array}{r} \phantom{0.} \overset{1}{0} \overset{1}{0} 0 \\ 0.392 \\ + 1.230 \\ \hline 2.222 \end{array}$$

Insert 0s to help subtract.

$$\begin{array}{r} 4.8 \\ - 2.13 \\ \hline \end{array} \qquad \begin{array}{r} \phantom{4.} \overset{7}{0} \overset{1}{0} \\ 4.80 \\ - 2.13 \\ \hline 2.67 \end{array}$$

Add or subtract.

- |    | a                                                               | b                                                                | c                                                          | d                                                        | e                                                        |
|----|-----------------------------------------------------------------|------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------|----------------------------------------------------------|
| 1. | $\begin{array}{r} 2.1 \\ + 0.259 \\ \hline \end{array}$         | $\begin{array}{r} 0.48 \\ + 1.1 \\ \hline \end{array}$           | $\begin{array}{r} 12.1 \\ + 3.26 \\ \hline \end{array}$    | $\begin{array}{r} 49.76 \\ + 3.1 \\ \hline \end{array}$  | $\begin{array}{r} 5.992 \\ + 3.25 \\ \hline \end{array}$ |
| 2. | $\begin{array}{r} 0.87 \\ - 0.4 \\ \hline \end{array}$          | $\begin{array}{r} 5.36 \\ - 4.1 \\ \hline \end{array}$           | $\begin{array}{r} 3.081 \\ - 0.72 \\ \hline \end{array}$   | $\begin{array}{r} 2.014 \\ - 1.2 \\ \hline \end{array}$  | $\begin{array}{r} 7.4 \\ - 2.75 \\ \hline \end{array}$   |
| 3. | $\begin{array}{r} 14.37 \\ + 3.002 \\ \hline \end{array}$       | $\begin{array}{r} 26.3 \\ + 5.25 \\ \hline \end{array}$          | $\begin{array}{r} 8.81 \\ + 0.135 \\ \hline \end{array}$   | $\begin{array}{r} 5.63 \\ + 2.1 \\ \hline \end{array}$   | $\begin{array}{r} 6.317 \\ + 5.8 \\ \hline \end{array}$  |
| 4. | $\begin{array}{r} 8.3 \\ - 2.21 \\ \hline \end{array}$          | $\begin{array}{r} 9.7 \\ - 0.86 \\ \hline \end{array}$           | $\begin{array}{r} 18.3 \\ - 7.26 \\ \hline \end{array}$    | $\begin{array}{r} 8.8 \\ - 3.265 \\ \hline \end{array}$  | $\begin{array}{r} 24.2 \\ - 5.417 \\ \hline \end{array}$ |
| 5. | $\begin{array}{r} 4.72 \\ + 8.5 \\ \hline \end{array}$          | $\begin{array}{r} 0.6 \\ + 0.423 \\ \hline \end{array}$          | $\begin{array}{r} 0.92 \\ + 4.083 \\ \hline \end{array}$   | $\begin{array}{r} 8.3 \\ + 0.613 \\ \hline \end{array}$  | $\begin{array}{r} 2.57 \\ + 8.803 \\ \hline \end{array}$ |
| 6. | $\begin{array}{r} 63.2 \\ - 5.24 \\ \hline \end{array}$         | $\begin{array}{r} 0.9 \\ - 0.26 \\ \hline \end{array}$           | $\begin{array}{r} 102.54 \\ - 7.683 \\ \hline \end{array}$ | $\begin{array}{r} 7. \\ - 4.21 \\ \hline \end{array}$    | $\begin{array}{r} 14.3 \\ - 6.27 \\ \hline \end{array}$  |
| 7. | $\begin{array}{r} 1.832 \\ 4.34 \\ + 6.2 \\ \hline \end{array}$ | $\begin{array}{r} 6.742 \\ 8.331 \\ + 0.2 \\ \hline \end{array}$ | $\begin{array}{r} 26.14 \\ - 8.092 \\ \hline \end{array}$  | $\begin{array}{r} 14.1 \\ - 8.092 \\ \hline \end{array}$ | $\begin{array}{r} 0.08 \\ - 0.013 \\ \hline \end{array}$ |



## Check What You Learned

### Multiplying through 4 Digits by 3 Digits

Multiply.

1.      a

$$\begin{array}{r} 45 \\ \times 7 \\ \hline \end{array}$$

          b

$$\begin{array}{r} 862 \\ \times 9 \\ \hline \end{array}$$

          c

$$\begin{array}{r} 328 \\ \times 5 \\ \hline \end{array}$$

          d

$$\begin{array}{r} 2476 \\ \times 6 \\ \hline \end{array}$$

2.      a

$$\begin{array}{r} 25 \\ \times 13 \\ \hline \end{array}$$

          b

$$\begin{array}{r} 59 \\ \times 32 \\ \hline \end{array}$$

          c

$$\begin{array}{r} 280 \\ \times 93 \\ \hline \end{array}$$

          d

$$\begin{array}{r} 814 \\ \times 37 \\ \hline \end{array}$$

CHAPTER 2 POSTTEST

3.      a

$$\begin{array}{r} 497 \\ \times 48 \\ \hline \end{array}$$

          b

$$\begin{array}{r} 6492 \\ \times 82 \\ \hline \end{array}$$

          c

$$\begin{array}{r} 2158 \\ \times 32 \\ \hline \end{array}$$

          d

$$\begin{array}{r} 8291 \\ \times 54 \\ \hline \end{array}$$

4.      a

$$\begin{array}{r} 212 \\ \times 561 \\ \hline \end{array}$$

          b

$$\begin{array}{r} 394 \\ \times 627 \\ \hline \end{array}$$

          c

$$\begin{array}{r} 875 \\ \times 169 \\ \hline \end{array}$$

          d

$$\begin{array}{r} 250 \\ \times 937 \\ \hline \end{array}$$

5.      a

$$\begin{array}{r} 4176 \\ \times 283 \\ \hline \end{array}$$

          b

$$\begin{array}{r} 9192 \\ \times 562 \\ \hline \end{array}$$

          c

$$\begin{array}{r} 7315 \\ \times 141 \\ \hline \end{array}$$

          d

$$\begin{array}{r} 5639 \\ \times 374 \\ \hline \end{array}$$

## Dividing Decimals by Decimals

Multiply the divisor and dividend by 10, by 100, or by 1000 so the new divisor is a whole number.

$$\begin{array}{r} 0.3 \overline{) 11.7} \\ \text{Multiply} \\ \text{by 10.} \end{array} = \begin{array}{r} 3 \overline{) 117} \\ \underline{-9} \\ 27 \end{array}$$

$$\begin{array}{r} 0.05 \overline{) 7.50} \\ \text{Multiply} \\ \text{by 100.} \end{array} = \begin{array}{r} 5 \overline{) 750} \\ \underline{-5} \\ 25 \\ \underline{-25} \\ 0 \end{array}$$

$$0.002 \overline{) 3.600} = 2 \overline{) 3600}$$

Divide.

- |    | a                        | b                         | c                          | d                         |
|----|--------------------------|---------------------------|----------------------------|---------------------------|
| 1. | $0.8 \overline{) 0.168}$ | $0.03 \overline{) 1.68}$  | $0.004 \overline{) 0.012}$ | $0.5 \overline{) 25.5}$   |
| 2. | $0.06 \overline{) 2.16}$ | $0.07 \overline{) 0.245}$ | $0.009 \overline{) 37.8}$  | $0.7 \overline{) 17.206}$ |
| 3. | $0.3 \overline{) 0.027}$ | $0.06 \overline{) 27.12}$ | $0.008 \overline{) 4}$     | $0.5 \overline{) 0.8}$    |
| 4. | $.002 \overline{) 45}$   | $0.07 \overline{) 50.4}$  | $0.6 \overline{) 0.0192}$  | $0.04 \overline{) 1.92}$  |

## Dividing 5 Digits by 2 Digits

$$\begin{array}{r} 1 \\ 75 \overline{) 81724} \\ \underline{-75} \phantom{0} \\ 67 \phantom{0} \end{array}$$

$$\begin{array}{l} 75 \times 1 = 75 \\ 81 \div 75 = 1 \\ \text{remainder } 6 \end{array}$$

$$\begin{array}{r} 10 \\ 75 \overline{) 81724} \\ \underline{-75} \phantom{0} \\ 67 \phantom{0} \\ \underline{-0} \phantom{0} \\ 672 \phantom{0} \end{array}$$

$$\begin{array}{l} 67 \div 75 = 0 \\ \text{remainder } 67 \end{array}$$

$$\begin{array}{r} 108 \\ 75 \overline{) 81724} \\ \underline{-75} \phantom{0} \\ 67 \phantom{0} \\ \underline{-0} \phantom{0} \\ 672 \phantom{0} \\ \underline{-600} \phantom{0} \\ 724 \phantom{0} \end{array}$$

$$\begin{array}{l} 672 \div 75 = 8 \\ \text{remainder } 72 \end{array}$$

$$\begin{array}{r} 1089 \text{ r } 49 \\ 75 \overline{) 81724} \\ \underline{-75} \phantom{0} \\ 67 \phantom{0} \\ \underline{-0} \phantom{0} \\ 672 \phantom{0} \\ \underline{-600} \phantom{0} \\ 724 \phantom{0} \\ \underline{-675} \phantom{0} \\ 49 \phantom{0} \end{array}$$

$$\begin{array}{l} 724 \div 75 = 9 \\ \text{remainder } 49 \end{array}$$

Divide.

a

b

c

d

1.  $21 \overline{) 37654}$

$45 \overline{) 73425}$

$64 \overline{) 21760}$

$86 \overline{) 90427}$

2.  $51 \overline{) 45951}$

$24 \overline{) 69329}$

$92 \overline{) 77562}$

$39 \overline{) 32869}$





## Subtracting Fractions with Unlike Denominators

$$\begin{array}{r} 2 \times 7 = 14 \\ 3 \times 7 = 21 \\ \hline 2 \times 3 = 6 \\ -\frac{7}{7} \times \frac{3}{3} = -\frac{21}{21} \\ \hline 8 \\ 21 \end{array}$$

When subtracting fractions that have different denominators, rename fractions to have a common denominator. Then, subtract fractions, and write the remainder in simplest form.

$$\begin{array}{r} 5 \times 1 = 5 \\ 6 \times 1 = 6 \\ \hline 2 \times 2 = 4 \\ -\frac{3}{3} \times \frac{2}{2} = -\frac{6}{6} \\ \hline 1 \\ 6 \end{array}$$

Subtract. Write answers in simplest form.

	a	b	c	d	e
1.	$\begin{array}{r} \frac{3}{4} \\ -\frac{1}{2} \\ \hline \end{array}$	$\begin{array}{r} \frac{5}{6} \\ -\frac{1}{3} \\ \hline \end{array}$	$\begin{array}{r} \frac{9}{10} \\ -\frac{2}{5} \\ \hline \end{array}$	$\begin{array}{r} \frac{4}{7} \\ -\frac{1}{8} \\ \hline \end{array}$	$\begin{array}{r} \frac{5}{9} \\ -\frac{1}{3} \\ \hline \end{array}$

2.	$\begin{array}{r} \frac{2}{5} \\ -\frac{1}{9} \\ \hline \end{array}$	$\begin{array}{r} \frac{3}{5} \\ -\frac{2}{7} \\ \hline \end{array}$	$\begin{array}{r} \frac{2}{3} \\ -\frac{3}{8} \\ \hline \end{array}$	$\begin{array}{r} \frac{5}{6} \\ -\frac{1}{3} \\ \hline \end{array}$	$\begin{array}{r} \frac{3}{4} \\ -\frac{2}{9} \\ \hline \end{array}$
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3.	$\begin{array}{r} \frac{7}{10} \\ -\frac{3}{6} \\ \hline \end{array}$	$\begin{array}{r} \frac{8}{9} \\ -\frac{1}{4} \\ \hline \end{array}$	$\begin{array}{r} \frac{7}{8} \\ -\frac{5}{12} \\ \hline \end{array}$	$\begin{array}{r} \frac{7}{10} \\ -\frac{1}{4} \\ \hline \end{array}$	$\begin{array}{r} \frac{4}{5} \\ -\frac{3}{7} \\ \hline \end{array}$
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