

Grade 7 Summer Review Packet

Please Read Carefully so you know what is expected of you. Your summer packet is due on the first day of school, and you will be given a test on the material contained in the summer packet during a 75-minute class the week of September 3rd, 2019 (first week of school). The summer packet will count for 10% and the test will count for 90% of your grade for the summer review.

Enclosed is a set of objectives on material that you should already know but that you might need to review. Along with the objectives is a list of Khan Academy videos with examples and explanations on each objective. Each objective has a set of problems for you to complete. You are expected to complete **all the problems**. Each assignment should be on a separate sheet of paper. Show all work in a neat and organized manner, make sure to include the original problem. **Please circle or highlight your answers**. An answer key to the odd numbered problems is attached. Be sure to check your odd numbered problem answers with the answer key. **Be sure to show all work for each problem**.

The following material was covered in Grade 6. This material will not be covered in Math 7/Pre-Algebra 7. The assumption is that the material is part of your knowledge base. As a review, you are to complete the attached problems. If you have trouble completing any part of the assignment you are expected to seek help. Coolmath.com; Khan Academy or YouTube can be used as a reference. Please do not wait until the last minute to complete the assignment.

To watch the videos, click on the link and it will open in your web browser. Good Luck!

Assignment 1: Operations with Whole Numbers

Video: [Multi-Digit Addition](#) (Math Antics)

Video: [Multi-Digit Subtraction](#) (Math Antics)

Video: [Multi-Digit Multiplication Pt. 1](#) (Math Antics)

Video: [Multi-Digit Multiplication Pt. 2](#) (Math Antics)

Video: [Long Division](#) (Math Antics)

Find the sum.

$$\begin{array}{r} 1. \quad 608 \\ + 429 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 932 \\ + 440 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 472 \\ + 381 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 789 \\ + 326 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 289 \\ + 889 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 591 \\ + 425 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 685 \\ + 274 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 902 \\ + 505 \\ \hline \end{array}$$

Find the difference.

$$\begin{array}{r} 1. \quad 933 \\ - 524 \\ \hline \end{array}$$

$$\begin{array}{r} 2. \quad 410 \\ - 330 \\ \hline \end{array}$$

$$\begin{array}{r} 3. \quad 704 \\ - 370 \\ \hline \end{array}$$

$$\begin{array}{r} 4. \quad 720 \\ - 663 \\ \hline \end{array}$$

$$\begin{array}{r} 5. \quad 742 \\ - 724 \\ \hline \end{array}$$

$$\begin{array}{r} 6. \quad 355 \\ - 27 \\ \hline \end{array}$$

$$\begin{array}{r} 7. \quad 808 \\ - 481 \\ \hline \end{array}$$

$$\begin{array}{r} 8. \quad 452 \\ - 384 \\ \hline \end{array}$$

Find the product.

1.
$$\begin{array}{r} 569 \\ \times 17 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 285 \\ \times 15 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 351 \\ \times 30 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 910 \\ \times 21 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 251 \\ \times 21 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 857 \\ \times 10 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 64 \\ \times 16 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 284 \\ \times 11 \\ \hline \end{array}$$

Find the quotient. Leave remainders.

1. $50 \overline{)4782}$

2. $3 \overline{)2697}$

3. $17 \overline{)3752}$

4. $38 \overline{)682}$

5. $9 \overline{)2767}$

6. $7 \overline{)958}$

7. $33 \overline{)2095}$

8. $34 \overline{)2109}$

Assignment 2: Operations with Decimals

Video: [Decimal Place Value](#) (Math Antics)

Video: [Decimal Arithmetic](#) (Math Antics)

Find the sum. (top row 1-5, bottom row 6-10)

$$\begin{array}{r} 406.6508 \\ + 31.4 \\ \hline \end{array} \quad \begin{array}{r} 9.1130 \\ + 211.9489 \\ \hline \end{array} \quad \begin{array}{r} 0.2935 \\ + 0.64 \\ \hline \end{array} \quad \begin{array}{r} 76.04 \\ + 1565.84 \\ \hline \end{array} \quad \begin{array}{r} 3249.941 \\ + 9.3 \\ \hline \end{array}$$

$$\begin{array}{r} 40.8 \\ + 107.5793 \\ \hline \end{array} \quad \begin{array}{r} 45.40 \\ + 33.5 \\ \hline \end{array} \quad \begin{array}{r} 316.357 \\ + 0.9 \\ \hline \end{array} \quad \begin{array}{r} 0.7 \\ + 5202.7 \\ \hline \end{array} \quad \begin{array}{r} 116.4 \\ + 0.354 \\ \hline \end{array}$$

Find the difference. (top row 1-5, bottom row 6-10)

$$\begin{array}{r} 9.442 \\ - 0.4 \\ \hline \end{array} \quad \begin{array}{r} 94.7770 \\ - 8.2318 \\ \hline \end{array} \quad \begin{array}{r} 93.2967 \\ - 2.3169 \\ \hline \end{array} \quad \begin{array}{r} 51.5 \\ - 9.2 \\ \hline \end{array} \quad \begin{array}{r} 29.55 \\ - 2.175 \\ \hline \end{array}$$

$$\begin{array}{r} 0.15 \\ - 0.1 \\ \hline \end{array} \quad \begin{array}{r} 64.31 \\ - 27.24 \\ \hline \end{array} \quad \begin{array}{r} 65.6 \\ - 0.9833 \\ \hline \end{array} \quad \begin{array}{r} 72.9392 \\ - 5.16 \\ \hline \end{array} \quad \begin{array}{r} 5.1 \\ - 0.92 \\ \hline \end{array}$$

Find the product. (top row 1-5, bottom row 6-10)

$$\begin{array}{r} 7.91 \\ \times 0.19 \\ \hline \end{array}$$

$$\begin{array}{r} 26.3 \\ \times 7.8 \\ \hline \end{array}$$

$$\begin{array}{r} 3.07 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 63.2 \\ \times 8.5 \\ \hline \end{array}$$

$$\begin{array}{r} 0.394 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 55.8 \\ \times 9.4 \\ \hline \end{array}$$

$$\begin{array}{r} 596 \\ \times 3.6 \\ \hline \end{array}$$

$$\begin{array}{r} 940 \\ \times 8.2 \\ \hline \end{array}$$

$$\begin{array}{r} 203 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 0.707 \\ \times 0.97 \\ \hline \end{array}$$

Find the quotient. (top row 1-4, bottom row 5-8)

$$9 \overline{) 6.5}$$

$$6 \overline{) 9.29}$$

$$5 \overline{) 5.8492}$$

$$2 \overline{) 0.5}$$

$$0.58 \overline{) 0.5568}$$

$$0.2 \overline{) 0.12}$$

$$0.7 \overline{) 0.1995}$$

$$1.5 \overline{) 1.2}$$

Assignment 3: Operations with Fractions

Video: [Simplifying Fractions](#) (Math Antics)

Video: [Adding and Subtracting Fractions](#) (Math Antics)

Video: [Multiplying Fractions](#) (Math Antics)

Video: [Dividing Fractions](#) (Math Antics)

Video: [Mixed Numbers](#) (Math Antics)

Find the sum. Write your answer in simplest form.

1. $\frac{5}{9} + \frac{15}{12} =$

2. $\frac{4}{8} + \frac{8}{4} =$

3. $\frac{9}{5} + \frac{1}{3} =$

4. $\frac{14}{5} + \frac{3}{11} =$

5. $\frac{8}{13} + \frac{11}{14} =$

6. $\frac{9}{12} + \frac{2}{5} =$

7. $\frac{1}{12} + \frac{10}{14} =$

8. $\frac{1}{10} + \frac{15}{10} =$

Find the difference. Write your answer in simplest form.

1. $\frac{10}{4} - \frac{1}{2} =$

2. $\frac{6}{14} - \frac{2}{14} =$

3. $\frac{14}{2} - \frac{5}{6} =$

4. $\frac{14}{5} - \frac{2}{4} =$

5. $\frac{12}{4} - \frac{8}{4} =$

6. $\frac{13}{4} - \frac{9}{10} =$

7. $\frac{11}{5} - \frac{11}{8} =$

8. $\frac{5}{9} - \frac{3}{13} =$

Find the product. Write your answer in simplest form. (HINT: cross-cancel)

1. $\frac{4}{10} \times \frac{11}{8} =$

2. $\frac{4}{2} \times \frac{12}{2} =$

3. $\frac{2}{15} \times \frac{13}{15} =$

4. $\frac{12}{7} \times \frac{12}{6} =$

5. $\frac{10}{6} \times \frac{2}{8} =$

6. $\frac{15}{5} \times \frac{9}{15} =$

7. $\frac{5}{14} \times \frac{4}{2} =$

8. $\frac{10}{12} \times \frac{3}{9} =$

Find the quotient. Write your answer in simplest form. (HINT: Keep, Change, Flip, then cross-cancel)

1. $\frac{8}{6} \div \frac{6}{11} =$

2. $\frac{7}{14} \div \frac{11}{7} =$

3. $\frac{5}{2} \div \frac{9}{11} =$

4. $\frac{15}{9} \div \frac{4}{5} =$

5. $\frac{7}{15} \div \frac{9}{11} =$

6. $\frac{7}{9} \div \frac{7}{2} =$

7. $\frac{4}{6} \div \frac{5}{15} =$

8. $\frac{1}{15} \div \frac{13}{6} =$

Assignment 4: Conversions

Video: [Convert Any Fraction to a Decimal](#) (Math Antics)

Convert the following fractions to decimals. Some may be repeating. (left column 1-6, right column 7-12)

$$\frac{4}{6} =$$

$$\frac{1}{8} =$$

$$\frac{11}{12} =$$

$$\frac{14}{20} =$$

$$\frac{1}{3} =$$

$$\frac{2}{3} =$$

$$\frac{2}{5} =$$

$$\frac{4}{5} =$$

$$\frac{8}{11} =$$

$$\frac{1}{4} =$$

$$\frac{5}{12} =$$

$$\frac{7}{9} =$$

Convert the following decimals to fractions. Write your answer in simplest form. (left column 1-6, right column 7-12)

$$0.35 =$$

$$0.125 =$$

$$0.6 =$$

$$0.625 =$$

$$0.3 =$$

$$0.85 =$$

$$0.45 =$$

$$0.375 =$$

$$0.4 =$$

$$0.7 =$$

$$0.25 =$$

$$0.8 =$$

ANSWER KEY (ODDS ONLY)

<p>Assignment 1</p> <p>Addition</p> <p>1. 1037</p> <p>3. 853</p> <p>5. 1178</p> <p>7. 959</p> <p>Subtraction</p> <p>1. 409</p> <p>3. 334</p> <p>5. 18</p> <p>7. 327</p> <p>Multiplication</p> <p>1. 9673</p> <p>3. 10,530</p> <p>5. 5271</p> <p>7. 1024</p> <p>Division</p> <p>1. 95 r. 32</p> <p>3. 220 r. 12</p> <p>5. 307 r. 4</p> <p>7. 63 r. 16</p>	<p>Assignment 3</p> <p>Addition</p> <p>1. 1 and $\frac{29}{65}$</p> <p>3. 2 and $\frac{2}{15}$</p> <p>5. 1 and $\frac{73}{182}$</p> <p>7. $\frac{67}{84}$</p> <p>Subtraction</p> <p>1. 2</p> <p>3. 6 and $\frac{1}{6}$</p> <p>5. 1</p> <p>7. $\frac{33}{40}$</p> <p>Multiplication</p> <p>1. $\frac{11}{20}$</p> <p>3. $\frac{26}{225}$</p> <p>5. $\frac{5}{12}$</p> <p>7. $\frac{5}{7}$</p> <p>Division</p> <p>1. 2 and $\frac{4}{9}$</p> <p>3. 3 and $\frac{1}{18}$</p> <p>5. $\frac{77}{135}$</p> <p>7. 2</p>
<p>Assignment 2</p> <p>Addition</p> <p>1. 438.0508</p> <p>3. 0.9335</p> <p>5. 3259.241</p> <p>7. 78.90</p> <p>9. 5203.4</p> <p>Subtraction</p> <p>1. 9.042</p> <p>3. 90.9798</p> <p>5. 27.375</p> <p>7. 37.07</p> <p>9. 67.7792</p> <p>Multiplication</p> <p>1. 1.5029</p> <p>3. 58.33</p> <p>5. 27.580</p> <p>7. 2145.6</p> <p>9. 8526</p>	<p>Assignment 4</p> <p>Fraction to Decimal</p> <p>1. 0.6666.....</p> <p>3. 0.3333....</p> <p>5. 0.727272....</p> <p>7. 0.125</p> <p>9. 0.6666....</p> <p>11. 0.25</p> <p>Decimal to Fraction</p> <p>1. $\frac{7}{20}$</p> <p>3. $\frac{3}{10}$</p> <p>5. $\frac{2}{5}$</p> <p>7. $\frac{1}{8}$</p> <p>9. $\frac{17}{20}$</p> <p>11. $\frac{7}{10}$</p>

Division 1. 0.7222 3. 1.16984 5. 0.96 7. 0.285	
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