

## Summer Math Review of Grade   6   for Students Entering Grade   7   in August 2018

The Math skills listed below have been covered **this** school year (2017-2018) in grade      and should be practiced over the summer for mastery by **every** student. **All students will be tested on these skills on Tuesday, August 21, 2018.**

Skills needing practice:

1. Add and Subtract Decimals
2. Multiply Decimals by Whole Numbers and Decimals
3. Divide Decimals by Whole Numbers and Decimals
4. Convert between Fractions, Decimals, and Percents
5. Add and Subtract Fractions with renaming
6. Multiply and Divide Fractions
7. Find Unit Rates
8. Solve Proportions
9. Find missing angles in triangles and quadrilaterals
10. Solve expressions and equations containing variables
11. Graph points on a coordinate plane

Resources for practice:

- IXL website: [www.ixl.com/signin/oll](http://www.ixl.com/signin/oll)
- Prodigy Math Games website: [www.prodigygame.com](http://www.prodigygame.com)
- Math based computer games
- Math websites such as [multiplication.com](http://multiplication.com)
- Math review workbooks (available at school supply stores such as Educator in Metairie),
- Online school supply websites: [www.schoolspecialty.com](http://www.schoolspecialty.com) and [www.amazon.com](http://www.amazon.com)
- Math workbook from this school year
- Google
- Kahoot website: <https://create.kahoot.it/>

A sample problem along with the answer for each skill is listed below. Students should practice as many problems as need for mastery of each skill. Please email [kmaples@ollourdes.org](mailto:kmaples@ollourdes.org) for IXL login questions.

# Examples:

1. Evaluate  $x+y$  if  $x=2.057$  and  $y=16.3$

$$\begin{array}{r} 2.057 \\ + 16.3 \\ \hline 18.357 \end{array}$$

Evaluate  $h-j$  if  $h=19.4$  and  $j=7.86$

$$\begin{array}{r} 8.13 \\ 19.40 \leftarrow \text{add a zero} \\ - 7.86 \\ \hline 11.54 \end{array}$$

2.  $6 \cdot 3.04$

$$\begin{array}{r} 3.04 \\ \times 6 \\ \hline 18.24 \end{array}$$

$2.6 \cdot 5.46$

$$\begin{array}{r} 5.46 \\ \times 2.6 \\ \hline 3276 \\ + 10920 \\ \hline 14.196 \end{array}$$

3.  $72.6 \div 10$

$$\begin{array}{r} 7.26 \\ 10 \overline{) 72.60} \\ \underline{70} \phantom{0} \phantom{0} \\ 26 \phantom{0} \\ \underline{20} \phantom{0} \\ 60 \\ \underline{-60} \\ 0 \end{array}$$

$4.86 \div 0.2$

$$\begin{array}{r} 24.3 \\ 0.2 \overline{) 4.86} \\ \underline{4} \phantom{0} \phantom{0} \\ 8 \phantom{0} \\ \underline{-8} \phantom{0} \\ 06 \\ \underline{-6} \\ 0 \end{array}$$

4. Write 76% as a decimal and fraction in simplest form

$$\frac{76}{100} = \frac{19}{25}$$

Write .3 as a fraction and a percent.

$$\frac{30}{100} = 30\% = \frac{3}{10}$$

Write  $\frac{3}{5}$  as a decimal and a percent.

$$5 \overline{) 3.0} = .6 = 60\%$$

5.

$$\frac{4}{7} - \frac{1}{2} = \frac{8}{14} - \frac{7}{14} = \frac{1}{14}$$

$$\frac{3}{5} + \frac{2}{3} = \frac{9}{15} + \frac{10}{15} = \frac{19}{15} = 1\frac{4}{15}$$

$$12 - 5\frac{7}{11} = 11\frac{11}{11} - 5\frac{7}{11} = 6\frac{4}{11}$$

6.

$$\frac{7}{12} \cdot \frac{6}{11} = \frac{7}{22}$$

$$2\frac{1}{2} \cdot 1\frac{2}{5} = \frac{5}{2} \cdot \frac{7}{5} = \frac{7}{2} = 3\frac{1}{2}$$

$$\frac{1}{2} \div \frac{3}{5}$$

$$\frac{1}{2} \cdot \frac{5}{3} = \frac{5}{6}$$

$$1\frac{3}{4} \div \frac{3}{4}$$

$$\frac{7}{4} \div \frac{3}{4}$$

$$\frac{7}{4} \cdot \frac{4}{3} = \frac{7}{3} = 2\frac{1}{3}$$

7. Write each as a unit rate.

8 tomatoes for \$2

$$2 \overline{)8}$$

4 tomatoes/dollar

\$5 for 10 highlighters

$$10 \overline{)5.0}$$

.50/highlighter

8. Solve each proportion.

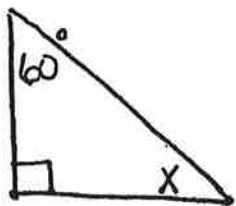
$$\frac{2 \cdot 4}{9 \cdot 4} = \frac{x}{36}$$

$$x = 8$$

$$\frac{d}{27} = \frac{3 \cdot 4}{3 \cdot 9}$$

$$d = 12$$

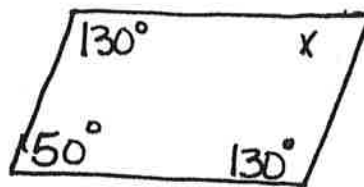
9.



$$90 + 60 = 150$$

$$180 - 150 = 30^\circ$$

$$x = 30^\circ$$



$$130 + 130 + 50 = 310$$

$$360 - 310 = 50$$

$$x = 50^\circ$$

10. Evaluate each expression if  $x = 3$  and  $y = 4$

$$2y + 8$$

$$2(4) + 8$$

$$8 + 8$$

$$16$$

$$x^2 + 1$$

$$3^2 + 1$$

$$9 + 1$$

$$10$$

$$xy \div 2$$

$$3 \cdot 4 \div 2$$

$$12 \div 2$$

$$6$$

$$x^2 \cdot y^2$$

$$3^2 \cdot 4^2$$

$$9 \cdot 16$$

$$144$$

Solve mentally.

$$x - 5 = 3$$

$$x = 8$$

$$4x = 20$$

$$x = 5$$

$$\frac{a}{3} = 7$$

$$a = 21$$

$$h + 5 = 19$$

$$h = 14$$

11. Graph the following points on the coordinate plane:

A (3, 2)    B (0, 1)    C (-1, 3)    D (-2, -1)

