HCS Math Spiral 2018-19

Learning Period 2

October 1 – November 30

Objectives: *Students should be able to perform operations with decimals and fractions, calculate the greatest common factor and least common multiple.*

Daily independent review for students in grades 5 through 8.
The goal of HCS Math Spirals is to refresh students on past material and fill in key holes that have been identified by upper grade math teachers as problem areas for many students. Our hope is that students will work independently to complete one problem set per day (2-3 problems) either before or after their daily math lesson. These problems should not take more than 10 minutes to complete. If your student takes longer than this, make a note of the math concept, move on, and come back to the problem set once you've covered the subject in a math lesson. The Math Spiral is not to be used as a one-day worksheet; effectiveness comes in the habit of daily, brief review.

To refresh concepts that may not be addressed in your current math curriculum, one great resource is Khan Academy online found at www.khanacademy.org.

At the end of each learning period your Education Coordinator will have your student complete a short benchmark, in office, which will assess the concepts covered on the spiral they just completed.

10/1 Solve.

1.) 2.65 + 19.4 2.) $\frac{3}{7}+\frac{2}{7}$ 3.) 4.2 x 2

10/2 Solve.

1.) 10 – 5.2 2.) 3.46 – 0.92 3.) $\frac{9}{11}-\frac{2}{11}$

10/3 Find the GCF of the following sets of numbers.

1.) 12 & 30 2.) 32 & 40 3.) 48 & 36

10/4

1.) A movie theater charges $11.25 for each ticket. If 150 people attend a movie how much money did the theater collect?

2.) 3.45 + 2.6 3.) 7.1 – 5.5

10/5 Find the GCF of the following sets of numbers.

1.) 15 & 25 2.) 12 & 48 3.) 16 & 40

10/8 Write each fraction in simplest form.

1.) $\frac{21}{30}$ 2.) $\frac{18}{45}$ 3.) $\frac{4}{16}$

10/9 Find the missing number.

1.) $\frac{35}{42}=\frac{5}{x}$ 2.) $\frac{3}{39}=\frac{x}{13}$ 3.) $\frac{12}{40}=\frac{x}{10}$

10/10 Find the LCM of the following sets of numbers.

1.) 5 & 6 2.) 3 & 5 3.) 4 & 10

10/11 Solve.

1.) 2.54 x 2.6 2.) $0.3\overline{)24}$ 3.) 9.25 x 3

10/12 Write each fraction in simplest form.

1.) $\frac{10}{25}$ 2.) $\frac{5}{20}$ 3.) $\frac{8}{16}$

10/15 Find the LCM of the following sets of numbers.

1.) 5 & 4 2.) 6 & 10 3.) 4 & 12

10/16 Find the LCD of the following sets of fractions.

1.) $\frac{1}{2}$ & $\frac{3}{5}$ 2.) $\frac{2}{7}$ & $\frac{1}{3}$ 3.) $\frac{1}{8}$ & $\frac{3}{16}$

10/17 Find the LCD of the following sets of fractions.

1.) $\frac{1}{6}$ & $\frac{4}{5}$ 2.) $\frac{4}{14}$ & $\frac{5}{7}$ 3.) $\frac{1}{6}$ & $\frac{1}{8}$

10/18 Find the missing number.

1.) $\frac{2}{3} = \frac{n}{9}$ 2.) $\frac{10}{12} = \frac{5}{n}$ 3.) $\frac{1}{5} = \frac{n}{20}$

10/19 Write equivalent fractions using LCD.

1.) $\frac{1}{2}$ & $\frac{1}{5}$ 2.) $\frac{2}{3}$ & $\frac{1}{9}$ 3.) $\frac{1}{2}$ & $\frac{3}{8}$

10/22 Solve.

1.) 4.6 x 4.6 2.) 5 – 2.5 3.) \$18.50 ÷ 2

10/23 Write equivalent fractions using LCD.

1.) $\frac{2}{3}$ & $\frac{4}{11}$ 2.) $\frac{1}{6}$ & $\frac{5}{10}$ 3.) $\frac{3}{4}$ & $\frac{5}{8}$

10/24 Compare each fraction using <, > or =

1.) $\frac{2}{5}$ $\frac{3}{5}$ 2.) $\frac{10}{25}$ $\frac{3}{5}$ 3.) $\frac{3}{6}$ $\frac{1}{3}$

10/25 Find the LCD of the following sets of fractions.

1.) $\frac{1}{3}$ & $\frac{1}{4}$ 2.) $\frac{3}{5}$ & $\frac{5}{8}$ 3.) $\frac{2}{15}$ & $\frac{1}{5}$

10/29 Solve.

1.) 3.4 x 5 2.) 9 – 4.2 3.) 2.61 + 5.274

10/30 Order each list of numbers from least to greatest.

1.) $\frac{1}{2}, \frac{1}{3}, \frac{3}{4}$ 2.) $\frac{1}{4}, \frac{1}{2}, \frac{1}{5}$

10/31 Find the sum.

1.) $\frac{2}{5} + \frac{3}{10}$ 2.) $\frac{1}{7} + \frac{1}{2}$ 3.) $\frac{3}{8} + \frac{1}{4}$

11/1 Solve.

1.) $\frac{5}{8}-\frac{3}{8}$ 2.) $\frac{10}{12}-x=\frac{4}{12}$ 3.) $\frac{1}{4}+\frac{5}{12}$

11/2 Solve.

1.) 3.5 + 0.75 2.) $\frac{7}{2}+\frac{3}{4}$ 3.) Compare using <, > or =. $4\frac{1}{4}$ 4.25

11/5 Solve.

1.) $\frac{3}{8}+\frac{5}{16}$ 2.) $\frac{5}{6}-\frac{1}{2}$ 3.) $\frac{13}{20}-\frac{2}{5}$

11/6 Find the LCD of the following sets of fractions.

1.) $\frac{2}{3}$ & $\frac{7}{12}$ 2.) $\frac{1}{2}$ & $\frac{2}{5}$ 3.) $\frac{5}{6}$ & $\frac{1}{4}$

11/7 Solve.

1.) $\frac{2}{3}+\frac{7}{12}$ 2.) $\frac{1}{2}-\frac{2}{5}$ 3.) $\frac{5}{6}-\frac{1}{4}$

11/8 Find the GCF of the following sets of numbers.

1.) 8 & 10 2.) 15 & 20 3.) 3 & 9

11/9 Solve each equation for the variable.

1.) $x+\frac{3}{10}=\frac{6}{10}$ 2.) $x+\frac{5}{16}=\frac{11}{16}$ 3.) $\frac{19}{20}-y=\frac{7}{20}$

11/13 Explain the mistake.

1.) $\frac{3}{4}+\frac{9}{10}=\frac{12}{14}=\frac{6}{7}$ 2.) $\frac{2}{3}-\frac{1}{6}=\frac{3}{6}=\frac{1}{3}$

11/14 Solve.

1.) 4.5 x 1.3 2.) 4.5 ÷ 1.5 3.) 2.22 x 2

11/15 Simplify.

1.) $\frac{12}{20}$ 2.) $\frac{8}{16}$ 3.) $\frac{14}{70}$

11/16 Solve each equation for the variable.

1.) $\frac{1}{2}+b=\frac{5}{6}$ 2.) $\frac{7}{8}-n=\frac{1}{8}$ 3.) $\frac{17}{20}-y=\frac{3}{4}$

11/26 Solve.

1.) 3.2 x 4 2.) 5 + 0.25 3.) 19.1 – 14.9

11/27 Compare using <, > or =.

1.) $1\frac{3}{5}$ 2 2.) $9\frac{3}{4}$ $9\frac{7}{10}$ 3.) $5\frac{1}{2}$ 5.4

11/28 What does each abbreviation stand for?

1.) LCM 2.) LCD 3.) GCF

11/29 Use LCD to write equivalent fractions.

1.) $\frac{3}{4}, \frac{4}{5}, \frac{5}{8}$ 2.) $\frac{1}{2}, \frac{2}{3}, \frac{5}{6}$ 3.) $\frac{4}{7}, \frac{2}{9}$

1/30 Find the missing number that makes the statement true.

1.) 8 x _____ x 7 = 56 2.) 831 x _____= 831 3.) 7 x 179 = _____ x 7