

HCS Math Spiral 2017-18 **KEY**

Learning Period 2

October 2 – November 30

10/2 Solve.

1.) $2.65 + 19.4 = \mathbf{22.05}$ 2.) $\frac{3}{7} + \frac{2}{7} = \frac{5}{7}$ 3.) $4.2 \times 2 = \mathbf{8.4}$

10/3 Solve.

1.) $10 - 5.2 = \mathbf{4.8}$ 2.) $3.46 - 0.92 = \mathbf{2.54}$ 3.) $\frac{9}{11} - \frac{2}{11} = \frac{7}{11}$

10/4 Find the GCF of the following sets of numbers.

1.) 12 & 30 **6** 2.) 32 & 40 **8** 3.) 48 & 36 **12**

10/5

1.) A movie theater charges \$11.25 for each ticket. If 150 people attend a movie how much money did the theater collect? **\$1,687.50**

2.) $3.45 + 2.6 = \mathbf{6.05}$ 3.) $7.1 - 5.5 = \mathbf{1.6}$

10/6 Find the GCF of the following sets of numbers.

1.) 15 & 25 **5** 2.) 12 & 48 **12** 3.) 16 & 40 **8**

10/9 Write each fraction in simplest form.

1.) $\frac{21}{30} = \frac{7}{10}$ 2.) $\frac{18}{45} = \frac{2}{5}$ 3.) $\frac{4}{16} = \frac{1}{4}$

10/10 Find the missing number.

1.) $\frac{35}{42} = \frac{5}{x}$ **x = 6** 2.) $\frac{3}{39} = \frac{x}{13}$ **x = 1** 3.) $\frac{12}{40} = \frac{x}{10}$ **x = 3**

10/11 Find the LCM of the following sets of numbers.

1.) 5 & 6 **30** 2.) 3 & 5 **15** 3.) 4 & 10 **20**

10/12 Solve.

1.) $2.54 \times 2.6 = \mathbf{6.604}$ 2.) $0.3 \overline{)24}$ **80** 3.) $9.25 \times 3 = \mathbf{27.75}$

10/13 Write each fraction in simplest form.

1.) $\frac{10}{25} = \frac{2}{5}$ 2.) $\frac{5}{20} = \frac{1}{4}$ 3.) $\frac{8}{16} = \frac{1}{2}$

10/16 Find the LCM of the following sets of numbers.

1.) 5 & 4 **20**

2.) 6 & 10 **30**

3.) 4 & 12 **12**

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

1.) $\frac{1}{2}$ & $\frac{3}{5}$ **10**

2.) $\frac{2}{7}$ & $\frac{1}{3}$ **21**

3.) $\frac{1}{8}$ & $\frac{3}{16}$ **16**

10/18 Find the LCD of the following sets of fractions.

1.) $\frac{1}{6}$ & $\frac{4}{5}$ **30**

2.) $\frac{4}{14}$ & $\frac{5}{7}$ **14**

3.) $\frac{1}{6}$ & $\frac{1}{8}$ **24**

10/19 Find the missing number.

1.) $\frac{2}{3} = \frac{n}{9}$ **n = 6**

2.) $\frac{10}{12} = \frac{5}{n}$ **n = 6**

3.) $\frac{1}{5} = \frac{n}{20}$ **n = 4**

10/20 Write equivalent fractions using LCD.

1.) $\frac{1}{2}$ & $\frac{1}{5}$

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

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

ANSWERS: $\frac{5}{10}$ & $\frac{2}{10}$

$\frac{6}{9}$ & $\frac{1}{9}$

$\frac{4}{8}$ & $\frac{3}{8}$

10/23 Solve.

1.) $4.6 \times 4.6 =$ **21.16**

2.) $5 - 2.5 =$ **2.5**

3.) $\$18.50 \div 2 =$ **\$9.25**

10/24 Write equivalent fractions using LCD.

1.) $\frac{2}{3}$ & $\frac{4}{11}$

2.) $\frac{1}{6}$ & $\frac{1}{2}$

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

ANSWERS: $\frac{22}{33}$ & $\frac{12}{33}$

$\frac{1}{6}$ & $\frac{3}{6}$

$\frac{6}{8}$ & $\frac{5}{8}$

10/25 Compare each fraction using <, > or =

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

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

3.) $\frac{3}{6}$ $\frac{1}{3}$

ANSWERS: <

<

>

10/26 Find the LCD of the following sets of fractions.

1.) $\frac{1}{3}$ & $\frac{1}{4}$ **12**

2.) $\frac{3}{5}$ & $\frac{5}{8}$ **40**

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

10/27 Solve.

1.) $3.4 \times 5 =$ **17**

2.) $9 - 4.2 =$ **4.8**

3.) $2.61 + 5.274 =$ **7.884**

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

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

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

ANSWERS: $\frac{1}{3}, \frac{1}{2}, \frac{3}{4}$

$\frac{1}{5}, \frac{1}{4}, \frac{1}{2}$

10/31 Find the sum.

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

2.) $\frac{1}{7} + \frac{1}{2} = \frac{9}{14}$

3.) $\frac{3}{8} + \frac{1}{4} = \frac{5}{8}$

11/1 Solve.

1.) $\frac{5}{8} - \frac{3}{8} = \frac{2}{8} = \frac{1}{4}$

2.) $\frac{10}{12} - x = \frac{4}{12}$

$x = \frac{6}{12}$ or $\frac{1}{2}$

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

11/2 Solve.

1.) $3.5 + 0.75 = 4.25$

2.) $\frac{7}{2} + \frac{3}{4} = \frac{17}{4}$ or $4\frac{1}{4}$

3.) Compare using $<$, $>$ or $=$. $4\frac{1}{4} = 4.25$

11/3 Solve.

1.) $\frac{3}{8} + \frac{5}{16} = \frac{11}{16}$

2.) $\frac{5}{6} - \frac{1}{2} = \frac{2}{6} = \frac{1}{3}$

3.) $\frac{13}{20} - \frac{2}{5} = \frac{5}{20} = \frac{1}{4}$

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

1.) $\frac{2}{3}$ & $\frac{7}{12}$ **12**

2.) $\frac{1}{2}$ & $\frac{2}{5}$ **10**

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

11/7 Solve.

1.) $\frac{2}{3} + \frac{7}{12} = \frac{15}{12} = \frac{5}{4}$ or $1\frac{1}{4}$

2.) $\frac{1}{2} - \frac{2}{5} = \frac{1}{10}$

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

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

1.) 8 & 10 **2**

2.) 15 & 20 **5**

3.) 3 & 9 **3**

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.) $\frac{19}{20} - y = \frac{7}{20}$

$x = \frac{3}{10}$

$x = \frac{6}{16}$ or $\frac{3}{8}$

$y = \frac{12}{20}$ or $\frac{3}{5}$

11/13 Explain the mistake.

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

ANSWERS:

1.) Did not make fractions have common denominator before adding.

2.) Reduced incorrectly

11/14 Solve.

1.) $4.5 \times 1.3 = \mathbf{5.85}$

2.) $4.5 \div 1.5 = \mathbf{3}$

3.) $2.22 \times 2 = \mathbf{4.44}$

11/15 Simplify.

1.) $\frac{12}{20} = \frac{3}{5}$

2.) $\frac{8}{16} = \frac{1}{2}$

3.) $\frac{14}{70} = \frac{1}{5}$

11/16 Solve each equation for the variable.

1.) $\frac{1}{2} + b = \frac{5}{6}$ **$b = \frac{2}{6}$ or $\frac{1}{3}$** 2.) $\frac{7}{8} - n = \frac{1}{8}$ **$n = \frac{6}{8}$ or $\frac{3}{4}$** 3.) $\frac{17}{20} - y = \frac{3}{4}$ **$y = \frac{2}{20}$ or $\frac{1}{10}$**

11/17 Solve.

1.) $3.2 \times 4 = \mathbf{12.8}$

2.) $5 + 0.25 = \mathbf{5.25}$

3.) $19.1 - 14.9 = \mathbf{4.2}$

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

**least common
multiple**

**least common
denominator**

**greatest common
factor**

11/29 Compare each fraction using <, > or =

1.) $\frac{4}{7} > \frac{1}{2}$

2.) $\frac{8}{24} = \frac{1}{3}$

3.) $\frac{2}{9} < \frac{1}{3}$

11/30 Write equivalent fractions using LCD.

1.) $\frac{3}{4} \& \frac{7}{10}$

2.) $\frac{2}{5} \& \frac{4}{9}$

3.) $\frac{5}{6} \& \frac{17}{24}$

ANSWERS: $\frac{15}{20} \& \frac{14}{20}$

$\frac{9}{45} \& \frac{20}{45}$

$\frac{20}{24} \& \frac{17}{24}$