

HCS Math Spiral 2016-17

Learning Period 5

April 3 – May 19 (Spring Break: April 14 – 21)

Answer Key

4/3

1.) $5 \overline{)4,250}$
850

2.) $3 \overline{)71}$
23R2 or 23.67

3.) $4 \overline{)110}$
27R2 or 27.5

4/4

1.) 969.76
115.45
+ 58.37
1,143.58

2.) 623.1
- 42.9
580.2

3.) $2.3 \times \underline{\quad} = 2,300$
1000

4/5

Write each fraction in simplest form.

1.) $\frac{21}{30} = \frac{7}{10}$

2.) $\frac{18}{45} = \frac{2}{5}$

3.) $\frac{4}{16} = \frac{1}{4}$

4/6

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**

4/7

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**

4/10

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

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

4/11

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

4/12

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 $\frac{1}{10}$

4/13

Find the product.

1.) $\frac{1}{4} \times \frac{3}{4} = \frac{3}{16}$ 2.) $\frac{2}{9} \text{ of } \frac{3}{8} = \frac{1}{12}$ 3.) $\frac{3}{8} \text{ of } \frac{2}{3} = \frac{1}{4}$

4/24

1.) One fourth of Sue's roses are yellow. She gives one third of the yellow roses to Judy. What fraction of her roses does she give to Judy? **Sue gives Judy one twelfth of her roses.**

2.) Neil has used $\frac{2}{3}$ of the 51 pieces in his model kit. Victor has used $\frac{2}{3}$ of the 72 pieces in his kit. Who has used more pieces? **Victor has used more pieces.**

4/25

1.) Find the reciprocal of $\frac{13}{3} = \frac{3}{13}$ 2.) $\frac{3}{4} \div \frac{3}{8} = 2$
3.) Does multiplication or division make this statement true? $\frac{3}{4} \square \frac{5}{12} = 1\frac{4}{5}$

Division

4/26

1.) Will the sum of $-6 + 5$ be positive or negative, how do you know? **It will be negative because the absolute value of the negative 6 is higher than 5 so we keep the sign of the negative 6.**

2.) $-10 + (-2) = -12$ 3.) $5 + 4 = 9$

4/27

Solve.

1.) $\frac{4}{9} \times \frac{3}{8} = \frac{1}{6}$ 2.) $4 - 5 = -1$ 3.) $-15 - 10 = -25$

4/28

1.) Solve. $\frac{4}{5} - \frac{2}{5} = \frac{2}{5}$ 2.) Compare using $<$, $>$, or $=$.
 $-20 > -21$ 3.) $-4 - (-4) = 0$

5/1

Find the value of the variable.

1.) $x + 9 = 14$, $x = 5$ 2.) $5 \times y = 30$, $y = 6$ 3.) $\frac{x}{6} = 6$, $x = 36$

5/2

Evaluate the algebraic expression.

1.) $\frac{a}{4}$ when $a = 24$
6

2.) $9 \times m$, when $m = 3$
27

5/3

Solve.

1.) $2\frac{1}{3} + 4\frac{1}{2} = 6\frac{5}{6}$

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

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

5/4

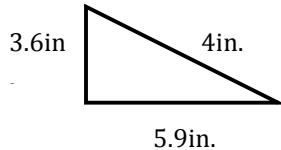
- 1.) Evaluate $y \times y$ when $y = 10$.
100
- 2.) Find the value of x if $x + x = 28$.
x = 14
- 3.) Find the value of m if $3m = 39$.
m = 13

5/5

Solve.

1.) $\frac{4}{9} + \frac{1}{3} = \frac{7}{9}$

2.) Find the perimeter. = 13.5\text{in}



3.) $x + \frac{1}{4} = \frac{5}{12}$
 $x = \frac{1}{6}$

5/8

Solve.

- 1.) $5 + (-7) + (-17) = -19$
- 2.) $-31 + (-10) = -41$
- 3.) $0 + (-23) = -23$

5/9

Solve for the variable.

1.) $16x = 8$

$x = \frac{1}{2}$

2.) $\frac{m}{3} = 2$

$m = 6$

3.) $6x = 2$

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

5/10

1.) Find the reciprocal of $\frac{7}{9} = \frac{9}{7}$

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

3.) Does multiplication or division make this statement true?
 $\frac{3}{4} \square \frac{5}{12} = \frac{5}{16}$

Multiplication

5/11

Find the product.

1.) $\frac{1}{5} \times \frac{3}{5} = \frac{3}{25}$

2.) $\frac{3}{8} \text{ of } \frac{4}{9} = \frac{1}{6}$

3.) $\frac{3}{10} \text{ of } \frac{5}{6} = \frac{1}{4}$

5/12

1.) $7 \overline{)4,249}$ 607r1 or
607

2.) $4 \overline{)79}$
19R3 or 19.75

3.) $6 \overline{)951}$
158R3 or 158.5

5/15

Find the missing number.

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

2.) $\frac{3}{7} = \frac{9}{n}$ **n = 21**

3.) $\frac{3}{4} = \frac{n}{32}$ **n = 24**

5/16

Find the sum.

1.) $23.7 + 0.99 = \mathbf{24.69}$

2.) $9.6 + 23.41 = \mathbf{33.01}$

3.) $\$702.26 + \$297.75 = \mathbf{\$1,000.01}$

5/17

1.) Will the sum of $11 + (-8)$ be positive or negative, how do you know? **It will be positive because the absolute value of the negative 8 is lower than 11 so we keep the sign of the positive 11.**

2.) $-13 + 21 = \mathbf{8}$

3.) $-3 + (-18) = \mathbf{-21}$

5/18

Write each fraction in simplest form.

1.) $\frac{8}{52} = \frac{2}{13}$

2.) $\frac{9}{42} = \frac{3}{14}$

3.) $\frac{6}{33} = \frac{2}{11}$

5/19

Solve for the variable.

1.) $10y = 2$

2.) $\frac{x}{2} = 7$

3.) $35m = 5$

$y = \frac{1}{5}$

x = 14

$m = \frac{1}{7}$