

HCS Math Spiral 2017-18

Learning Period 5

April 9 – May 18 (Spring Break: March 30 – April 6)

Answer Key

4/9

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

850

2.) $3 \overline{)71}$

23R2 or 23.67

3.) $4 \overline{)110}$

27R2 or 27.5

4/10

1.) 969.76

115.45

+ 58.37

1,143.58

2.) 623.1

- 42.9

580.2

3.) $2.3 \times \underline{\hspace{2cm}} = 2,300$

1000

4/11

Write each fraction in simplest form.

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

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

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

4/12

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**

4/13

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**

4/16

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

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

4/17

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

4/18

Solve each equation for the variable.

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

4/19

Find the product.

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

4/20

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.**

4/23

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**4/24**

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.**

$$2.) -10 + (-2) = \mathbf{-12}$$

$$3.) 5 + 4 = \mathbf{9}$$

4/25

Solve.

$$1.) \frac{4}{9} \times \frac{3}{8} = \frac{1}{6}$$

$$2.) 4 - 5 = \mathbf{-1}$$

$$3.) -15 - 10 = \mathbf{-25}$$

4/26

$$1.) \text{Solve. } \frac{4}{5} - \frac{2}{5} = \frac{2}{5}$$

2.) Compare using $<$, $>$, or $=$.

$$3.) -4 - (-4) = \mathbf{0}$$

$$\mathbf{-20 > -21}$$

4/27

Find the value of the variable.

$$1.) x + 9 = 14, \mathbf{x = 5}$$

$$2.) 5 \times y = 30, \mathbf{y = 6}$$

$$3.) \frac{x}{6} = 6, \mathbf{x = 36}$$

4/30

Evaluate the algebraic expression.

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

6

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

27**5/1**

Solve.

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

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

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

5/2

1.) Evaluate $y \times y$ when $y = 10$. **100**

2.) Find the value of x if $x + x = 28$ **$x = 14$**

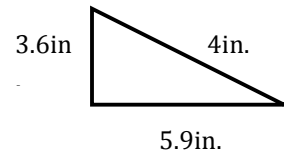
3.) Find the value of m if $3m = 39$ **$m = 13$**

5/3

Solve.

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

2.) Find the perimeter. **= 13.5in**



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

5/4

Solve.

1.) $5 + (-7) + (-17) = -19$

2.) $-31 + (-10) = -41$

3.) $0 + (-23) = -23$

5/7

Solve for the variable.

1.) $16x = 8$

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

3.) $6x = 2$

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

$m = 6$

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

5/8

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**5/9**

Find the product.

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

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

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

5/10

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

607

2.) $4 \overline{)79}$

19R3 or 19.75

3.) $6 \overline{)951}$

158R3 or 158.5

5/11

Find the missing number.

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

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

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

5/14

Find the sum.

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

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

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

5/15

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

5/16

Write each fraction in simplest form.

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

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

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

5/17

Solve for the variable.

1.) $10y = 2$

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

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

$x = 14$

3.) $35m = 5$

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

5/18

Solve.

1.) $\frac{2}{5} \times \frac{1}{6} = \frac{1}{15}$

2.) $6 - 13 = \mathbf{-7}$

3.) $-11 + 7 = \mathbf{-4}$