

# HCS Math Spiral 2020-21

## Learning Period 5

April 1 – May 27 (Spring Break: April 2 – 9)

### Answer Key

4/1

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

**850**

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

**23R2 or 23.67**

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

**27R2 or 27.5**

4/12

1.) 969.76

$$\begin{array}{r} 115.45 \\ + 58.37 \\ \hline \end{array}$$

**1,143.58**

2.) 623.1

$$\begin{array}{r} - 42.9 \\ \hline \end{array}$$

**580.2**

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

**1000**

4/13

Write each fraction in simplest form.

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

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

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

4/14

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**

4/15

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

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

4/19

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

**4/20**

Solve each equation for the variable.

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

**4/21**

Find the product.

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

**4/22**

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****4/26**

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.**

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

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

**4/27**

Solve.

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

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

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

**4/28**

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

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

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

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

**4/29**

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****5/3**

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  $x + x = 28$   **$x = 14$**

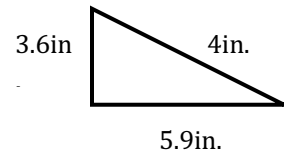
3.) Find the value of  $m$  if  $3m = 39$   **$m = 13$**

**5/5**

Solve.

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

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



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

**5/6**

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.)  $6x = 2$

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

**$m = 6$**

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

**5/10**

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**

### 5/13

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

### 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.)  $10y = 2$

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

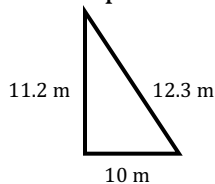
2.)  $\frac{x}{2} = 7$

**$x = 14$**

3.)  $35m = 5$

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

### 4/20

1.) Find the perimeter: **33.5m**2.)  $6.291$ 

$- \underline{4.320}$

**1.971**

3.) Order from least to greatest:

2, -3, 5, 0, -9

**-9, -3, 0, 2, 5**

### 4/21 Find the sum.

1.)  $1.6 + 0.89$

**2.49**

2.)  $3.12 + 6.4$

**9.52**

3.)  $\$317.26 + \$110.99$

**\\$428.25**

### 4/24 Find the product.

1.)  $\frac{2}{3} \times \frac{3}{7} = \frac{2}{7}$

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

3.)  $\frac{5}{9} \text{ of } \frac{3}{7} = \frac{5}{21}$