

HCS Math Spiral 2021-22

Learning Period 5

April 1 – May 26 (Spring Break: April 15 – 22)

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

4/4

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

4/5

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**

4/8

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.

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

4/13

Find the product.

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

4/14

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

$$1.) \text{ Find the reciprocal of } \frac{13}{3} = \frac{3}{13} \quad 2.) \frac{3}{4} \div \frac{3}{8} = \mathbf{2}$$

$$3.) \text{ Does multiplication or division make this statement true? } \frac{3}{4} \square \frac{5}{12} = 1\frac{4}{5}$$

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

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

$$2.) \text{ Compare using } <, >, \text{ or } =.$$

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

$$-20 > -21$$

4/29

Find the value of the variable.

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

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

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

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 $x + x = 28$

 $x = 14$

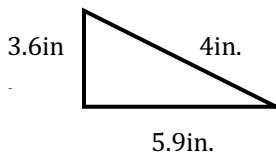
3.) Find the value of m if $3m = 39$

 $m = 13$ **5/5**

Solve.

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

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



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

5/6

Solve.

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

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

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

5/9

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

5/16

Find the sum.

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

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

3.) $\$702.26 + \297.75

 $= \$1,000.01$ **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.) $\frac{x}{2} = 7$

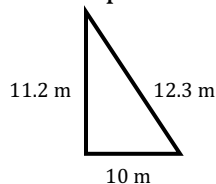
$x = 14$

3.) $35m = 5$

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

4/20

1.) Find the perimeter: **33.5m**



2.) 6.291

$$\begin{array}{r} 6.291 \\ - 4.320 \\ \hline 1.971 \end{array}$$

1.971

3.) Order from least to greatest:

2, -3, 5, 0, -9

-9, -3, 0, 2, 5**4/23** 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.) $\frac{5}{9} \text{ of } \frac{3}{7} = \frac{5}{21}$