HCS Math Spiral 2021-22

Learning Period 4 **Answer Key**

February 1 – March 31

2/1

1.) If $k = 3$, what is the value of $7k - 2$? 19
2.) If $n = 31$, what is the value of $6 - n$? -25
3.) If $n = 4$, what is the value of $6 \times n - 3$? 21

2/2

1.) If $z = 3$, what is the value of $5 \times (6 - z)$? 15
2.) If $s = 4$, what is the value of $s(9 - 4)$? 20
3.) If $x = -2$, what is the value of $x - 5$? -7

2/3 Convert the mixed number into an improper fraction.

1.) $3\frac{1}{2} = \frac{7}{2}$ 2.) $2\frac{1}{4} = \frac{9}{4}$ 3.) $1\frac{2}{5} = \frac{7}{5}$

2/4 Convert the improper fraction into a mixed number.

1.) $\frac{11}{3} = 3\frac{2}{3}$ 2.) $\frac{9}{5} = 1\frac{4}{5}$ 3.) $\frac{14}{7} = 2$

2/7 Solve.

1.) $-3 + m$, when $m = -4$ -7
2.) $2.67 + p$, when $p = -1.2$ 1.47
3.) $m + 12.2$, when $m = -10.5$ 1.7

2/8 Solve.

1.) $2\frac{1}{3} + 4\frac{1}{2} = 6\frac{5}{6}$ 2.) $1\frac{1}{3} + \frac{2}{3} = 2$ 3.) $2\frac{2}{5} + 1\frac{1}{10} = 3\frac{1}{2}$

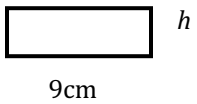
2/9

1.) Sally caught twice as many fish as her dad. If her dad caught f fish, write an expression to show how many fish sally caught? 2f

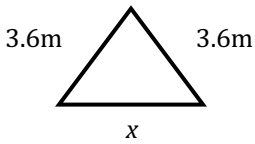
2.) Ann has 54 crayons. This number is 18 more crayons than Bill has. Write an equation that can be used to find b, the number of crayons that Bill has. b + 18 = 54

2/10

1.) What is the value of h if the area is $27cm^2$?
h = 3cm



2.) Find the perimeter of the triangle if $x = 4.91$m.
p = 12.11m



2/11

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

2/14

1.) Find the value of s if $s + 5 = -10$. s = -15

2.) Find the value of r if $2 + r = 1$. r = -1

3.) Find the value of m if $6m = 6$. m = 1

2/15 Solve.

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

$m = \frac{1}{4}$

2.) $6x + 1 = 13$

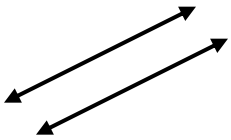
x = 2

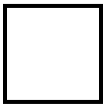
3.) $-3 + m = 15$

m = 18

2/16

1.) Sketch a pair of parallel lines.



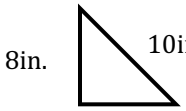
2.) Find the missing measurement, x, if the perimeter =  28.2 cm.

4.5cm

x x = 9.6 cm

3.) Find the missing measurement, a, if the perimeter = 24 in.

a = 6 in



2/17 Solve each equation for the variable.

1.) $m - 2 = -4$, ***m* = -2**

2.) $n \div 5 = 9$, ***n* = 45**

3.) $6y = 6$, ***y* = 1**

2/22 Solve.

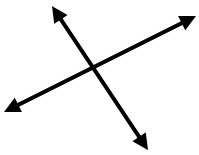
1.) -41 – (-3) = -38

2.) 5 + (-20) = -15

3.) -13 + 13 = 0

2/23

1.) Draw a pair of perpendicular lines.



2.) Find the area of the rectangle.

a = 38.3407 m²

4.67 m

8.21 m

3.) Solve $\frac{9}{10} - \frac{2}{7} = \frac{43}{70}$

2/24 Solve for the variable.

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

2.) $\frac{m}{3} = 2$ $\quad$ m = 6

3.) $6x = 2$ $\quad x = \frac{1}{3}$

2/25

1.) $-5 + m = -5$ $\quad$ m = 0

2.) Create your own algebraic equation and ask your parent to solve.
3x + 1 = 7 or something similar

3.) What is the opposite of -8? 8

2/28

1.) $\frac{-2}{7} + \left(\frac{-3}{7}\right) = \frac{-5}{7}$

2.) When you add two negative numbers will you always get a negative answer? Explain. Yes (and explanation)

3.) 32 + (-31) = 1

3/1

1.) Explain how you find the area of a rectangle. Multiply base x height

2.) Can you have a negative perimeter or area? Explain. No, you can't measure around a figure with negative measurements.

3/2 Solve.

1.) -4.67 + (-3.1) = 7.77

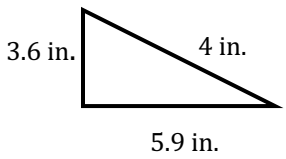
2.) 13.1 - 22 = -8.9

3.) If you add two positive numbers will you always get a positive answer? Explain.
Yes (and explanation)

3/3 Solve.

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

2.) Find the perimeter. = 13.5 in

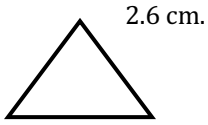


3.) $x + \frac{1}{4} = \frac{5}{12}$ $\quad x = \frac{1}{6}$

3/4

1.) Draw an equilateral triangle. all 3 sides the same length

2.) Find the perimeter of this equilateral triangle.
P = 7.8 cm



3/7 Solve.

1.) $m + (-6) = 10$ 2.) $3x = 21$ 3.) $-14 - (-4) = -10$

m = 16 x = 7

3/8 Solve.

1.) $15 \times \frac{1}{5} = 3$ 2.) $2\frac{2}{3} \times 1\frac{1}{2} = 4$ 3.) $\frac{n}{6} \times 18 = 12$ n = 4

3/9

1.) 0.321 - .029 = 0.292 2.) 4.5 + 0.09 = 4.59 3.) 8.01 – 3.13 = 4.88

3/10

1.) $\frac{2}{3} \div n = 1$

$n = \frac{2}{3}$

2.) $\frac{2}{3} \div t = \frac{1}{6}$

t = 4

3.) $b \div \frac{1}{4} = \frac{8}{25}$

$b = \frac{2}{25}$

3/11 Solve.

1.) -3 – 5 = -8 2.) Whole numbers and their opposites are called Integers.

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

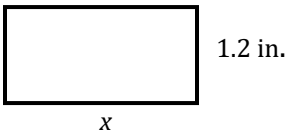
3/14 Solve.

1.) -3 + (-12) = -15 2.) -15 + 8 = -7 3.) 4 – 19 = -15

3/15

1.) Find the value of x if the A=3.9 in^2

x = 3.25 in.



2.) Describe a real-life situation that can be represented by -12.

The temperature is 12 degrees below zero. I owe my friend $12.

3.) Compare -7 < -4

3/16 Solve.

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

3/17

1.) The sum of two numbers is 20. Their product is 96. What are the two numbers?

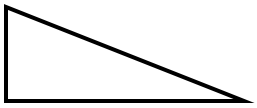
12, 8

2.) The sum of three numbers is 22. Their product is 320. What are the three numbers?

4, 8, 10

3/18

1.) *What kind of triangle is ABC? Equilateral, Isosceles or Scalene?*



2.) The perimeter of a sandbox is 32ft. The width is 6ft., what is the length?

l = 10ft.

3/21 Solve.

1.) -6 × 3 = -1

2.) -3 × (-3) × (-1)= -9

3.) 8 × (-8) = -64

3/22

1.) $b - 4.5 = 14$

b = 18.5

2.) $4\frac{1}{2} - 2\frac{5}{6}$

$= 1\frac{2}{3}$

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

$= 1\frac{1}{8}$

3/23 Solve for the variable.

1.) $t + (-4) = -4$

t = 0

2.) $p - 3 = -5$

p = -2

3.) $38 - x = 0$

x = 38

3/24 Solve for the variable.

1.) $\frac{a}{6} = 2.5$

a = 15

2.) $4y = 48$

y = 12

3.) $4z + 5 = 9$

z = 1

3/25 Find the product.

1.) 2(-10) = -20

2.) (-4)(-7) = 28

3.) (9)(3) = 27

3/28 Solve.

1.) 156.29 + 26.213

182.503

2.) 49.2 – 26.8

22.4

3.) 12 x 79

948

3/29 Solve.

1.) 3.2 x 4 = **12.8**

2.) 5 + 0.25 = **5.25**

3.) 19.1 – 14.9 =**4.2**

3/30

1.) 286 ÷ 22

13

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

3.) 149.1 + 27

176.1

3/31

Solve.

1.) $\frac{2}{3} + \frac{4}{9} = \frac{10}{9} \, or \, 1\frac{1}{9}$

2.) $\frac{2}{3} - \frac{2}{5} = \frac{4}{15}$

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