

HCS Math Spiral 2020-21

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.) $\frac{14}{7} = 2$

2/5 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

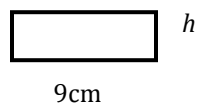
1.) Sally caught twice as many fish as her dad. If her dad caught f fish, write an expression to show how many fish sally caught? **$2f$**

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

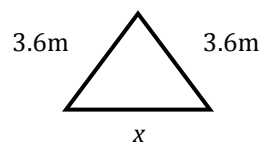
1.) What is the value of h if the area is 27cm^2 ?

$h = 3\text{cm}$



2.) Find the perimeter of the triangle if $x = 4.91\text{m}$.

$p = 12.11\text{m}$



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 $3m = 39$ **$m = 13$**

2/16

- 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 $6m = 6$. **$m = 1$**

2/17 Solve.

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

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

$$2.) 6x + 1 = 13$$

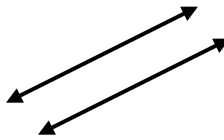
$$x = 2$$

$$3.) -3 + m = 15$$

$$m = 18$$

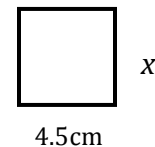
2/18

- 1.) Sketch a pair of parallel lines.



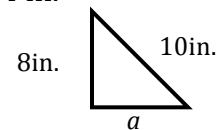
- 2.) Find the missing measurement, x , if the perimeter = 28.2 cm.

$$x = 9.6 \text{ cm}$$



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

$$a = 6 \text{ in}$$

**2/19** Solve each equation for the variable.

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

$$2.) n \div 5 = 9, \mathbf{n = 45}$$

$$3.) 6y = 6, \mathbf{y = 1}$$

2/22 Solve.

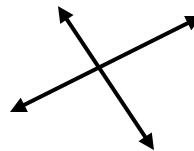
$$1.) -41 - (-3) = \mathbf{-38}$$

$$2.) 5 + (-20) = \mathbf{-15}$$

$$3.) -13 + 13 = \mathbf{0}$$

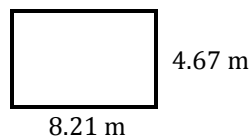
2/23

- 1.) Draw a pair of perpendicular lines.



- 2.) Find the area of the rectangle.

$$a = 38.3407 \text{ m}^2$$



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

2/24 Solve for the variable.

1.) $16x = 8$

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

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

$$m = 6$$

3.) $6x = 2$

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

2/25

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

2.) Create your own algebraic equation and ask your parent to solve.

$$3x + 1 = 7 \text{ or something similar}$$

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

2/26

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.) $13.1 - 22 = -8.9$

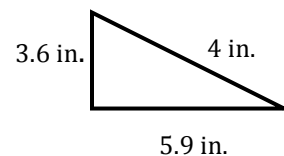
3.) If you add two positive numbers will you always get a positive answer? Explain.

Yes (and explanation)

3/3 Solve.

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

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



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

3/4

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

2.) Find the perimeter of this equilateral triangle.

$$P = 7.8 \text{ cm}$$



3/5 Solve.

1.) $m + (-6) = 10$

$m = 16$

2.) $3x = 21$

$x = 7$

3.) $-14 - (-4) = -10$

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

3/12 Solve.

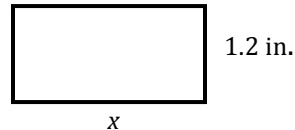
1.) $-3 + (-12) = -15$

2.) $-15 + 8 = -7$

3.) $4 - 19 = -15$

3/15

1.) Find the value of x if the $A=3.9 \text{ in}^2$
 $x = 3.25 \text{ in.}$

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?

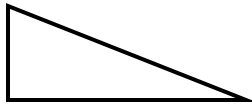
12, 8

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?

$l = 10\text{ft.}$

3/19 Solve.

1.) $-6 \times 3 = -1$

2.) $-3 \times (-3) \times (-1) = -9$

3.) $8 \times (-8) = -64$

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.) $(9)(3) = 27$

3/26 Solve.

1.) $156.29 + 26.213$

182.503

2.) $49.2 - 26.8$

22.4

3.) 12×79

948

3/29 Solve.

1.) $3.2 \times 4 = 12.8$

2.) $5 + 0.25 = 5.25$

3.) $19.1 - 14.9 = 4.2$

3/30

1.) $286 \div 22$

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