Hi There 8th Grade Math Scholars,

The lesson provided is enough for 1-2 hours of work for the week. If you need to contact your teacher, you can email her directly through the address below. You can also connect with your individual teacher through your respective Microsoft Teams page in Office 365.

Ms. Sherman: ksherma@tacoma.k12.wa.us  Ms. Galston: sgalsto@tacoma.k12.wa.us

We hope during this time that you are staying safe, participating in things that you love to do, and enjoying your family.

Instructions:

Daily: Login in to Success Maker for 15 Minutes

- Link: bit.do/successmaker
- Login: Student ID Number
- Password: Student ID Number

This Week’s Lesson

Learning Target: I can multiply and divide positive and negative integers.

- The attached page is your work for the week.
Name ______________________________

**Multiplying and Dividing Integers**

1. To find $3 \times (-4)$ on a number line, move backward 4 spaces, 3 times.

\[ \begin{array}{c}
\end{array} \]

So, $3 \times (-4) = \underline{\hspace{1cm}}$.

Use the number line to find each product. Look for a pattern.

2. $2 \times (-7) \underline{\hspace{1cm}}$  
3. $4 \times (-2) \underline{\hspace{1cm}}$  
4. $3 \times (-5) \underline{\hspace{1cm}}$

Based on the commutative property, if $3 \times (-4) = -12$, then $-4 \times 3 = -12$.

Use the commutative property to find each product.

5. $-7 \times 2 \underline{\hspace{1cm}}$  
6. $-2 \times 4 \underline{\hspace{1cm}}$  
7. $-5 \times 3 \underline{\hspace{1cm}}$

8. Is the product of a positive number and a negative number always positive or always negative?  
   ______________________

9. Use patterns to complete each set of products.

\[
\begin{array}{ll}
2 \times (-6) = 12 & 2 \times (-8) = \underline{\hspace{1cm}} \\
1 \times (-6) = \underline{\hspace{1cm}} & 1 \times (-8) = \underline{\hspace{1cm}} \\
0 \times (-6) = \underline{\hspace{1cm}} & 0 \times (-8) = \underline{\hspace{1cm}} \\
-1 \times (-6) = 6 & -1 \times (-8) = \underline{\hspace{1cm}} \\
-2 \times (-6) = \underline{\hspace{1cm}} & -2 \times (-8) = \underline{\hspace{1cm}}
\end{array}
\]
Name ________________________________

**Multiplying and Dividing Integers (continued)**

10. Is the product of two negative numbers always positive or always negative?

Use the relationship between multiplication and division to find each quotient. Look for patterns.

11. $6 \times _____ = -24$
   
12. $9 \times _____ = -18$
   
13. $-8 \times _____ = 24$
   
14. $-35 \div (-7) _____$
   
15. $-40 \div (-5) _____$

17. Is the quotient of a positive number and a negative number always positive or always negative?

18. Is the quotient of two negative numbers always positive or always negative?

**Multiply or Divide**

19. $-3 \times 2 _____$

20. $-10 \times (-7) _____$

21. $8 \times (-9) _____$

22. $5 \times (-24) _____$

23. $-31 \times (-7) _____$

24. $-49 \div (-7) _____$

25. $36 \div (-4) _____$

26. $-42 \div 3 _____$

27. $90 \div (-15) _____$

28. The temperature starts at 0 degrees and falls 2 degrees every hour. What is the temperature after 5 hours?

29. **Reasoning** What is the sign of the answer if you multiply 2 negative numbers and then divide the product by a negative number?

30. During a week, Mike’s daily balances in his checking account were $40, $12, $15, $23, and $44. What was his average daily balance during that week?