

9-25-17

Aim: SWBAT apply knowledge of integers to complete contextual word problems.

HW: Finish Worksheet

Quiz Wednesday (add, subtract, multiply, divide)

Test next Tuesday

Do Now: Worksheet # 1 - 5

Pg. 75 # 3-22

$$\textcircled{3} -4(-7) = 28 \quad \textcircled{4} 0(-9) = 0 \quad \textcircled{5} -3(6) = -18 \quad \textcircled{6} 8(-5) = -40$$

$$\textcircled{7} -6(-7) = -42 \quad \textcircled{8} -1(-17) = 17 \quad \textcircled{9} 0(-13) = 0 \quad \textcircled{10} -4(-11) = 44$$

$$\textcircled{11} 9(-2) = -18 \quad \textcircled{12} 3(-5) = -15 \quad \textcircled{13} -15(-12) = 180 \quad \textcircled{14} 1(-32) = -32$$

$$\textcircled{15} -1(-2)(-3) = -6 \quad \textcircled{16} 2(-4)(5) = -40 \quad \textcircled{17} 10(-9)(-3) = 270$$

$$\textcircled{18} -7(-9)(-6) = -378 \quad \textcircled{19} -2(5)(-6) = 60 \quad \textcircled{20} 6(-4)(12) = -288$$

$$\textcircled{21} -8(-7)(-5) = -280 \quad \textcircled{22} 12(0)(-45) = 0$$



Pg. 79 # 2-13

$$\textcircled{2} \frac{-44}{4} = -11 \quad \textcircled{3} \frac{0}{-7} = 0 \quad \textcircled{4} \frac{-81}{-9} = 9 \quad \textcircled{5} \frac{50}{-10} = -5$$

$$\textcircled{6} \frac{-49}{-7} = 7 \quad \textcircled{7} \frac{-28}{2} = -14 \quad \textcircled{8} \frac{36}{-4} = -9 \quad \textcircled{9} \frac{-19}{-1} = 19$$

$$\textcircled{10} \frac{-66}{-11} = 6 \quad \textcircled{11} \frac{-27}{0} = \text{undefined} \quad \textcircled{12} \frac{-9}{6} = \frac{-3}{2} \text{ OR } -1.5 \text{ OR } -1\frac{1}{2}$$

$$\textcircled{13} \frac{-6}{-30} = \frac{1}{5}$$

DO NOW:

Tell whether the sum of the two integers is *always*, *sometimes* or *never* positive.

- 1) two negative integers never
- 2) a positive integer and a negative integer sometimes
- 3) two positive integers always
- 4) a positive integer and zero always
- 5) a negative integer and zero never

CLASSWORK:

Read each problem carefully, write a number sentence and solve.

- 1) The temperature one morning in Juneau, Alaska was  $-12^{\circ}\text{F}$ . By the afternoon, the temperature had risen  $8^{\circ}\text{F}$ . What was the temperature in the afternoon?

$$-12 + 8 = -4$$

- 2) You withdraw \$400 from your savings account. Then you withdraw \$250 more. How much did you withdraw in total from your savings account?

$$-400 - 250 = -650$$

- 3) A submarine is 250 meters below sea level. The submarine then rises 175 meters. What is the new position of the submarine?

- 4) In Saturday's football game, the Blue team lost 3 yards on one play. They then gained 5 yards on the next. How many yards did they gain in total?

$$\boxed{-3} + \boxed{5} = 2$$

- \* 5) You enter an elevator on the eighth floor. The elevator goes up 5 floors and then down 7 floors, where you exit. On what floor did you exit the elevator?

$$8 + 5 - 7 = 6$$

*I exited on the 6<sup>th</sup> floor.*

- \* 6) The temperature outside was 20°F. The wind chill made it feel like -15°F. Find the difference between the real temperature and the apparent temperature.

$$20 - (-15) = 35$$

- 7) Carly has \$50 in a bank account. She writes a check for \$75 from the account. How much money does Carly have in the account after writing the check?

- 8) The highest temperature ever recorded on Earth is 136°F and the lowest temperature recorded is -129°F. What is the range of temperatures on Earth?

- 9) The Panthers lost 6 yards on their first play and lost another 8 yards on their next play. What was their net result in yards after these two plays?

- 10) A submarine at -28 feet dives 40 feet. What is the submarine's position after the dive?