

September 29, 2014 ^{1st} ^{2nd}

Starter

Camp Cook

The camp cook knows she needs to fill 55 identical bowls in order to feed all of the campers for a big picnic. The following rules are used:

1. Every camper gets their own bowl of soup.
2. Every two campers get one bowl of spaghetti to share.
3. Every three campers get one bowl of salad to share.
4. Every camper must have their own helping of soup, spaghetti and salad.

After some calculations, the camp cook was able to figure out how many campers were going to the picnic. How many campers went to the picnic?



9/29 Combining all operations with Integers

Compute:

PEMDAS

$$\begin{aligned} & |(-4) + (+4)| - 6 \\ = & |0| - 6 \\ = & 0 - 6 \\ = & -6 \end{aligned}$$

$$\begin{aligned} & \frac{12}{(-3) + (+6)} \cdot (-3) \\ = & \frac{12}{3} \cdot (-3) \\ = & 4 \cdot (-3) \\ = & -12 \end{aligned}$$

$$\begin{aligned} & \underline{|3 \cdot (-1)|} + 6 \cdot (-4) \\ & = |-3| + 24 \\ & = 3 + 24 \\ & = 27 \end{aligned}$$

$$\begin{aligned} & 3^2 \cdot \frac{(-13) + (-1)}{-3} \\ & = 9 \cdot \frac{-12}{-3} \\ & = 9 \cdot 4 \\ & = 36 \end{aligned}$$

Evaluate each for $m = -8$, $n = -4$

$$\begin{aligned} & m - (n + 3) \\ = & -8 - (-4 + 3) \\ = & -8 + (+1) \\ = & -7 \end{aligned}$$

Always use ()
when you substitute!

$$\begin{aligned} & mn - n^2 \\ = & (-8)(-4) - (-4)^2 \\ = & 32 - 16 \\ = & 16 \end{aligned}$$

Evaluate each for $x = -10$, $y = 5$, $z = -2$

$$\left| \frac{x^2}{z} \right| - y$$

$$= \left| \frac{(-10)^2}{(-2)} \right| - 5$$

$$= \left| \frac{100}{-2} \right| - 5$$

$$= |-50| - 5$$

$$= 50 - 5$$

$$= 45$$

$$\frac{z^2 - x + 1}{y}$$

$$= \frac{(-2)^2 - (-10) + 1}{5}$$

$$= \frac{4 + 10 + 1}{5}$$

$$= 3$$

Homework

Blue WS 9

Due Tues. end of class