November 17, 2014 1st 2nd

Starter

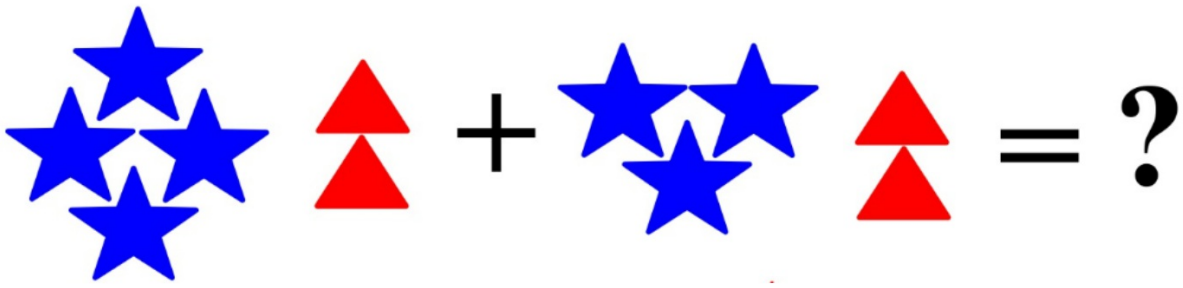
If the owner of a pet store puts one canary in each of his cages, he has one extra canary. If he puts 2 canaries in each cage, he has one extra cage. How many cages and canaries does he have?

11/17 - Combining LIKE terms

$4s + 3s = 7s$

$5t + 3t = 8t$

$10r - 7r = 3r$



$$s_{s}^{ss}\ {}_{t}^{t} + {}_{s}^{s}s_{s}\ {}_{t}^{t} = ?$$

$$4s + 2t + 3s + 2t$$

$$= 7s + 4t$$

Simplify by combining like terms.

$7r + 3 + 6$

∴ III IIII

$= 7r + 9$

$2 - 7a + a + 9$

$= -6a + 11$

If there is no # in front of the variable, it is a ONE.

Term with variable always goes first.

$n - 2 - 2n$

$= -1n - 2$

$= -n - 2$

$9x + 9 - 10 - 5x$

$= 4x - |$

↳ The negative becomes the subtract

Now with decimals...

The # in front of the variable is called the "coefficient"

$3.4x - 4.5 + 6.2x$

$= 9.6x - 4.5$

$+6.2$
$+3.4$
$+9.6$

$2.16r + \overline{6.3} + \overline{7}r + 6.8$

$= -4.84r + 0.5$

-7.00
$+2.16$
-4.84

$+6.8$
-6.3
$+0.5$

Terms without Variable are called "Constants"

And fractions...

$$1\frac{2}{3}x - \frac{3}{4} + 1\frac{5}{6}x$$

$= 3\frac{1}{2}x - \frac{3}{4}$

$+1\frac{2}{3}\ \frac{4}{6}$

$+1\frac{5}{6}\ \frac{5}{6}$

$2\frac{9}{6}$

$= 3\frac{3}{6}$

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

$$-1\frac{6}{7}m + 3\frac{1}{2} + \frac{-1}{3}m + 3\frac{1}{8}$$

$= -2\frac{4}{21}m + 6\frac{5}{8}$

$-1\frac{6}{7}\ \frac{18}{21}$

$-\ \frac{1}{3}\ \frac{7}{21}$

$-1\frac{25}{21}$

$-2\frac{4}{21}$

Homework

Lilac WS 1

Due Wednesday