

Alexis De La O Fuentes

* Reduce de forma clara y correcta los siguientes problemas.

$$1. 5a - 8a + a - 6a + 21a$$

$$5a + a + 21a = 27a$$

$$-8a - 6a = -14a$$

$$27a - 14a = \boxed{13a}$$

$$2. -\frac{2}{5}bx^2 + \frac{1}{5}bx^2 + \frac{3}{4}bx^2 - 4bx + bx$$

$$\frac{1}{5}bx^2 + \frac{3}{4}bx^2 + bx^2 = \frac{39}{20}bx^2$$

$$-\frac{2}{5}bx^2 - 4bx = -\frac{22}{5}bx^2$$

$$\frac{39}{20}bx^2 - \frac{22}{5}bx^2 = \boxed{\frac{49}{20}bx^2}$$

$$3. \frac{2}{3}Y + \frac{1}{3}Y - Y$$

$$\frac{2}{3}Y + \frac{1}{3}Y = \frac{9}{3}$$

$$\frac{9}{3} - Y = \boxed{-\frac{6}{3}Y}$$

$$4. -24ax + 2 - 15ax + 2 + 39ax + 2$$

$$+2 + 2 + 39ax + 2 = 45ax$$

$$-24ax - 15ax = -9ax$$

$$45ax - 9ax = \boxed{36ax}$$

* Hallar el valor numerico de los siguientes expresiones.

$$s = a = 1, b = 2, c = 3, d = 4, m = \frac{1}{2}, n = \frac{2}{3}, p = \frac{1}{4}$$

5. $(a+b)c-d$
 $(1+2)3-4 = (3)-1$
 $(3)-1 = \underline{-3}$

6. $(b-m)(c-n)+4a^2$
 $(2-\frac{1}{2})(3-\frac{2}{3})+4 \cdot 1 \cdot 2 = (1.5)(2.34)+8$
 $(1.5)(2.34)+8 = 3.51+8$
 $3.51+8 = \underline{11.51}$

7. $(2m+3n)(4p+b^2)$
 $(2 \cdot \frac{1}{2} + 3 \cdot \frac{2}{3})(4 \cdot \frac{1}{4} + 2 \cdot 2) = (1+198)(1+4)$
 $(1+198)(1+4) = (199)(5)$
 $(199)(5) = 995$

8. $2mx+6(b^2+c^2)-4d^2$