

# ACTIVIDAD DE MATEMÁTICAS 18

## FRACCIONES EN EL PLANO CARTESIANO

### GRADO SEXTO

PROFESORA: INGRID CÁRDOSO



NOMBRE: \_\_\_\_\_

CURSO: \_\_\_\_\_

## DESCUBRIENDO EL PERSONAJE

PARA DESCUBRIR EL PERSONAJE DEBES TENER EN CUENTA LO SIGUIENTE:

- ♥ DEBES USAR UNA HOJA MILIMETRADA TAMAÑO CARTA.

### EL EJE X

- ♥ DEBE TRAZARSE EN EL CENTÍMETRO DE LA MITAD DE LA HOJA QUE SE TIENE HORIZONTALMENTE.
- ♥ CADA 3 CENTÍMETROS COLOCAS UN NÚMERO ENTERO, HASTA LLEGAR AL 3.
- ♥ EN CADA CENTÍMETRO ESCRIBE UN TERCIO, DOS TERCIOS, UNO, CUATRO TERCIOS, CINCO TERCIOS...
- ♥ CADA CINCO MILÍMETROS, COLOCA UN SEXTO, TRES SEXTOS, CINCO SEXTOS, SIETE SEXTOS, NUEVE SEXTOS, ONCE SEXTOS, TRECE SEXTOS...
- ♥ CADA MILÍMETRO DE LA HOJA CORRESPONDE A UNA TREINTAVA PARTE.

### EL EJE Y

- ♥ DEBE TRAZARSE EN EL CENTÍMETRO DE LA MITAD DE LA HOJA QUE SE TIENE VERTICALMENTE.
- ♥ CADA 4 CENTÍMETROS COLOCAS UN NÚMERO ENTERO, HASTA LLEGAR AL 3.
- ♥ EN CADA CENTÍMETRO ESCRIBE UN CUARTO, DOS CUARTOS, TRES CUARTOS, UNO, CINCO CUARTOS...
- ♥ CADA CINCO MILÍMETROS COLOCA UN OCTAVO, TRES OCTAVOS, CINCO OCTAVOS, SIETE OCTAVOS, NUEVE OCTAVOS, ONCE OCTAVOS, TRECE OCTAVOS...
- ♥ CADA MILÍMETRO DE LA HOJA CORRESPONDE A UNA CUARENTAVA PARTE.

- ♥ PARA UBICAR LAS COORDENADAS DEBES RECORDAR QUE PRIMERO VA EL NÚMERO DEL EJE X Y LUEGO EL DEL EJE Y.
- ♥ SE VAN UNIENDO EL PUNTO ANTERIOR CON EL NUEVO, PERO SI ENCUENTRAS ESTE SEGMENTO \_\_\_\_\_ SIGNIFICA QUE NO DEBES UNIR CON EL PUNTO ANTERIOR.
- ♥ DESPUÉS DE TRAZAR LAS PARTES COLORÉALAS POR DENTRO DEL COLOR QUE CORRESPONDA.
- ♥ EL ÚLTIMO PUNTO DE CADA COLOR NO PUEDE SER UNIDO CON EL PRIMERO DEL SIGUIENTE COLOR.

CON LAS ANTERIORES RECOMENDACIONES EMPIEZA A UBICAR LAS SIGUIENTES COORDENADAS.

$$\left(-1, \frac{5}{4}\right); \left(-\frac{4}{3}, \frac{11}{8}\right); \left(-\frac{4}{3}, \frac{13}{8}\right); \left(-\frac{7}{6}, \frac{15}{8}\right); \left(-\frac{5}{6}, 2\right); \left(-\frac{3}{6}, \frac{15}{8}\right); \left(-\frac{1}{3}, \frac{13}{8}\right); \left(-\frac{1}{3}, \frac{11}{8}\right);$$

$$\left(-\frac{2}{3}, \frac{5}{4}\right); \left(-1, \frac{5}{4}\right); \left(-\frac{3}{6}, \frac{15}{8}\right); \left(-\frac{3}{6}, 2\right); \left(-\frac{1}{6}, \frac{17}{8}\right); \left(\frac{1}{6}, \frac{17}{8}\right); \left(\frac{1}{3}, 2\right); \left(\frac{1}{3}, \frac{13}{8}\right); \left(\frac{1}{6}, \frac{6}{4}\right);$$

$$\left(-\frac{1}{6}, \frac{5}{4}\right); \left(\frac{3}{30}, \frac{6}{4}\right); \left(-\frac{2}{30}, \frac{13}{8}\right); \left(-\frac{1}{3}, \frac{6}{4}\right); \left(\frac{3}{6}, \frac{5}{4}\right); \left(\frac{3}{6}, \frac{9}{8}\right); \left(-\frac{5}{6}, \frac{7}{8}\right); \left(-1, \frac{7}{8}\right); (-1, 1);$$
$$\left(\frac{3}{6}, \frac{5}{4}\right); \left(-1, 0\right); \left(-\frac{5}{6}, 0\right); \left(-\frac{23}{30}, -\frac{2}{40}\right); \left(-\frac{23}{30}, -\frac{1}{8}\right); \left(-\frac{5}{6}, -\frac{7}{40}\right); \left(-1, -\frac{7}{40}\right);$$

$$\left(-\frac{32}{30}, -\frac{1}{8}\right); \left(-\frac{32}{30}, -\frac{2}{40}\right); (-1, 0); \left(-\frac{23}{30}, -\frac{2}{40}\right); \left(-\frac{2}{3}, 0\right); \left(-\frac{3}{6}, 0\right); \left(-\frac{13}{30}, -\frac{2}{40}\right);$$

$$\left(-\frac{13}{30}, -\frac{1}{8}\right); \left(-\frac{3}{6}, -\frac{8}{40}\right); \left(-\frac{2}{3}, -\frac{8}{40}\right); \left(-\frac{23}{30}, -\frac{1}{8}\right); \left(-\frac{13}{30}, -\frac{2}{40}\right); \left(-\frac{11}{30}, \frac{2}{40}\right);$$

$$\left(-\frac{8}{30}, \frac{2}{40}\right); \left(-\frac{6}{30}, -\frac{2}{40}\right); \left(-\frac{6}{30}, -\frac{1}{8}\right); \left(-\frac{8}{30}, -\frac{8}{40}\right); \left(-\frac{11}{30}, -\frac{8}{40}\right); \left(-\frac{13}{30}, -\frac{1}{8}\right);$$

$$\left(-\frac{6}{30}, -\frac{2}{40}\right); \left(-\frac{4}{30}, \frac{3}{40}\right); \left(0, \frac{3}{40}\right); \left(\frac{2}{30}, 0\right); \left(\frac{2}{30}, -\frac{3}{40}\right); \left(0, -\frac{8}{40}\right); \left(-\frac{4}{30}, -\frac{8}{40}\right);$$

$$\left(-\frac{6}{30}, -\frac{1}{8}\right); \left(0, \frac{3}{40}\right); \left(\frac{3}{30}, \frac{1}{8}\right); \left(\frac{1}{6}, \frac{1}{8}\right); \left(\frac{8}{30}, \frac{2}{40}\right); \left(\frac{1}{6}, -\frac{1}{8}\right)$$

$$\left(-\frac{5}{6}, 0\right); \left(-\frac{23}{30}, \frac{13}{40}\right); \left(-\frac{28}{30}, \frac{3}{6}\right); \left(-\frac{7}{6}, \frac{1}{4}\right); \left(-\frac{3}{4}, \frac{1}{4}\right); \left(-\frac{5}{3}, \frac{5}{8}\right); \left(-\frac{11}{6}, \frac{18}{40}\right); \left(-2, \frac{18}{40}\right);$$

$$\left(-2, \frac{5}{8}\right); \left(-\frac{15}{6}, \frac{5}{8}\right); \left(-\frac{7}{3}, \frac{7}{8}\right); \left(-\frac{7}{3}, \frac{9}{8}\right); \left(-\frac{17}{6}, \frac{6}{4}\right); \left(-\frac{7}{3}, 2\right); \left(-\frac{15}{6}, \frac{10}{4}\right); \left(-\frac{11}{6}, \frac{10}{4}\right);$$

$$\left(-\frac{5}{3}, 3\right); \left(-\frac{7}{6}, \frac{21}{8}\right); \left(-\frac{2}{3}, 3\right); \left(-\frac{1}{6}, \frac{10}{4}\right); \left(\frac{1}{3}, \frac{10}{4}\right); \left(\frac{1}{6}, \frac{17}{8}\right); \left(\frac{1}{3}, 2\right); \left(\frac{1}{3}, \frac{13}{8}\right); \left(\frac{2}{3}, \frac{6}{4}\right);$$

$$\left(\frac{2}{3}, \frac{5}{4}\right); (-1, 1); \left(-\frac{5}{6}, \frac{3}{4}\right); \left(-\frac{1}{3}, \frac{3}{4}\right); \left(\frac{1}{6}, \frac{7}{8}\right); \left(\frac{1}{6}, \frac{5}{8}\right); \left(-\frac{1}{6}, \frac{3}{8}\right); \left(0, \frac{1}{8}\right); \left(\frac{2}{3}, \frac{6}{4}\right);$$

$$\left(\frac{8}{30}, -\frac{2}{40}\right); \left(\frac{4}{3}, \frac{5}{8}\right); \left(\frac{9}{6}, \frac{7}{8}\right); \left(\frac{47}{30}, \frac{38}{40}\right); \left(\frac{5}{3}, \frac{7}{8}\right); \left(\frac{5}{3}, \frac{3}{4}\right); \left(2, \frac{37}{40}\right); \left(\frac{68}{30}, \frac{37}{4}\right); \left(\frac{68}{30}, \frac{7}{8}\right);$$

$$-\left(2, \frac{3}{4}\right); \left(\frac{7}{3}, \frac{7}{8}\right); \left(\frac{7}{3}, \frac{33}{40}\right); \left(\frac{7}{3}, \frac{3}{4}\right); \left(2, \frac{5}{8}\right); -\left(\frac{7}{3}, \frac{3}{4}\right); \left(\frac{7}{3}, \frac{5}{8}\right); \left(2, \frac{3}{8}\right); \left(\frac{9}{6}, \frac{1}{4}\right); \left(\frac{3}{6}, -\frac{3}{8}\right);$$

$$\left(\frac{1}{6}, -\frac{5}{8}\right); \left(-\frac{3}{6}, -\frac{5}{8}\right); \left(-\frac{2}{3}, -\frac{2}{4}\right); -\left(-\frac{3}{6}, -\frac{3}{8}\right); \left(-\frac{9}{6}, -\frac{6}{4}\right); \left(-\frac{9}{6}, -\frac{7}{4}\right); \left(-\frac{5}{3}, -2\right);$$

$$\left(-2, -\frac{7}{4}\right); \left(-2, -\frac{6}{4}\right); \left(-\frac{13}{6}, -\frac{6}{4}\right); \left(-\frac{13}{6}, -\frac{57}{40}\right); \left(-2, -\frac{11}{8}\right); \left(-1, -\frac{8}{40}\right); -\left(-\frac{5}{3}, -\frac{15}{8}\right);$$

$$\left(-\frac{5}{3}, -\frac{13}{8}\right); -\left(-\frac{11}{6}, -\frac{15}{8}\right); \left(-\frac{11}{6}, -\frac{13}{8}\right); -\left(\frac{7}{6}, -\frac{9}{4}\right); \left(\frac{7}{6}, -3\right); -\left(\frac{2}{3}, -\frac{9}{4}\right);$$

$$\left(\frac{2}{3}, -3\right); -\left(\frac{1}{6}, -\frac{9}{4}\right); \left(-\frac{2}{3}, -3\right); -\left(-\frac{3}{6}, -\frac{9}{4}\right); (-1, -3); -\left(-\frac{9}{6}, \frac{9}{8}\right); \left(-\frac{5}{3}, \frac{9}{8}\right);$$

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$$\left(-\frac{11}{6}, 1\right); \left(-\frac{11}{6}, \frac{7}{8}\right); \left(-\frac{5}{3}, \frac{3}{4}\right); \left(-\frac{9}{6}, \frac{3}{4}\right)$$

$$\left(-\frac{5}{6}, -\frac{3}{4}\right); \left(-\frac{7}{6}, -\frac{19}{8}\right); \left(-\frac{2}{3}, -\frac{9}{4}\right); \left(-\frac{1}{6}, -\frac{19}{8}\right); \left(\frac{1}{6}, -\frac{9}{4}\right); \left(\frac{2}{3}, -\frac{19}{8}\right); \left(\frac{5}{6}, -\frac{17}{8}\right);$$

$$\left(\frac{7}{6}, -\frac{9}{4}\right); \left(\frac{4}{3}, -2\right); \left(\frac{5}{3}, -2\right); \left(\frac{3}{6}, -\frac{3}{8}\right); \left(\frac{1}{6}, -\frac{1}{4}\right); -\left(-\frac{5}{6}, \frac{3}{4}\right); \left(-\frac{2}{3}, \frac{7}{8}\right); \left(-\frac{1}{3}, \frac{7}{8}\right); \left(-\frac{1}{6}, \frac{3}{4}\right);$$

$$\left(\frac{1}{6}, \frac{7}{8}\right); \left(-\frac{1}{6}, 1\right); -\left(-\frac{9}{6}, 1\right); \left(-\frac{53}{30}, \frac{38}{40}\right); \left(-\frac{48}{30}, -\frac{32}{40}\right); \left(-\frac{9}{6}, 1\right); -\left(-1, \frac{13}{8}\right); \left(-\frac{5}{6}, \frac{3}{8}\right);$$

$$\left(-\frac{23}{30}, \frac{63}{40}\right); \left(-\frac{23}{30}, \frac{6}{4}\right); \left(-\frac{5}{6}, \frac{52}{40}\right); \left(-1, \frac{52}{40}\right); \left(-\frac{32}{30}, \frac{6}{4}\right); \left(-\frac{32}{30}, \frac{63}{40}\right); \left(-1, \frac{13}{8}\right); -\left(-\frac{1}{6}, \frac{78}{40}\right);$$

$$\left(0, \frac{78}{40}\right); \left(\frac{2}{30}, \frac{15}{8}\right); \left(\frac{2}{30}, \frac{72}{40}\right); \left(0, \frac{7}{4}\right); \left(-\frac{1}{6}, \frac{7}{4}\right); \left(-\frac{7}{30}, \frac{72}{40}\right); \left(-\frac{7}{30}, \frac{15}{8}\right); \left(-\frac{1}{6}, \frac{78}{40}\right)$$