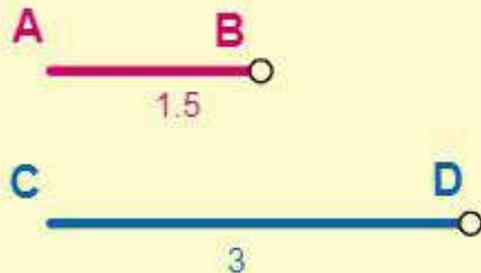


RAZÓN ENTRE DOS SEGMENTOS



LONGITUDES DE LOS SEGMENTOS:

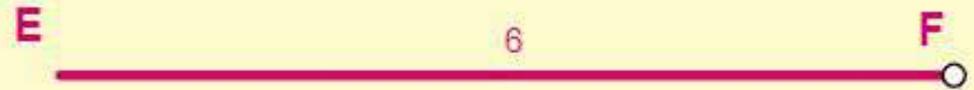
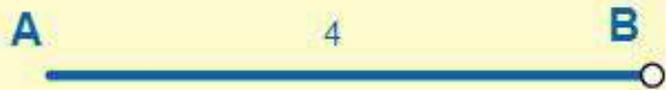
$$\overline{AB} = 1.5$$

$$\overline{CD} = 3$$

RAZÓN

$$\frac{\overline{AB}}{\overline{CD}} = \frac{1.5}{3} = 0.5$$

SEGMENTOS PROPORCIONALES



$$\overline{AB} = 4$$

$$\overline{CD} = 1.3$$

$$\frac{\overline{AB}}{\overline{CD}} = \frac{4}{1.3} = 3$$

$$\overline{EF} = 6$$

$$\overline{GH} = 2$$

$$\frac{\overline{EF}}{\overline{GH}} = \frac{6}{2} = 3$$

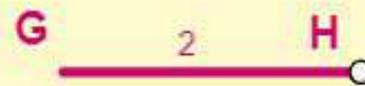
SEGMENTOS PROPORCIONALES



$$\overline{AB} = 0.6$$

$$\overline{CD} = 1.3$$

$$\frac{\overline{AB}}{\overline{CD}} = \frac{0.6}{1.3} = 0.5$$



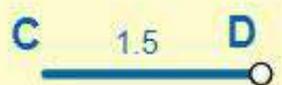
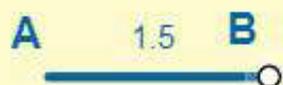
$$\overline{FE} = 1$$

$$\overline{GH} = 2$$

$$\frac{\overline{FE}}{\overline{GH}} = \frac{1}{2} = 0.5$$

- a. Mueve el punto B hasta que AB mida 1,5 u. ¿Cuánto mide el cuarto proporcional? Reinicia el applet.
- b. Mueve el punto F hasta que EF mida 2 u. ¿Cuánto mide ahora GH?
- c. Haz que AB mida 2 u, CD mida 4 u y EF mida 1 u. ¿Cuánto mide GH?

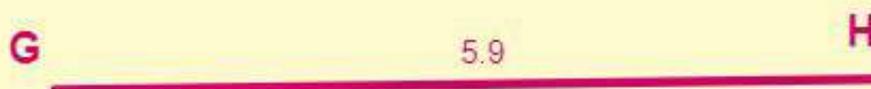
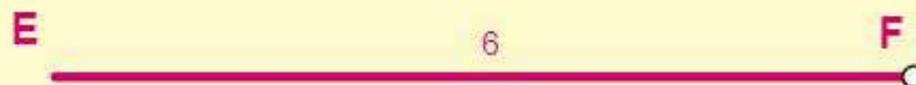
SEGMENTOS PROPORCIONALES



$$\overline{AB} = 1.5$$

$$\overline{CD} = 1.5$$

$$\frac{\overline{AB}}{\overline{CD}} = \frac{1.5}{1.5} = 1$$



$$\overline{EF} = 6$$

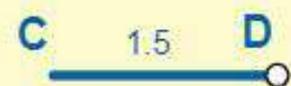
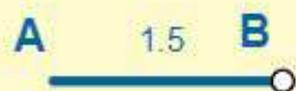
$$\overline{GH} = 5.9$$

$$\frac{\overline{EF}}{\overline{GH}} = \frac{6}{5.9} = 1$$

b. Mueve el punto F hasta que EF mida 2 u. ¿Cuánto mide ahora GH?

c. Haz que AB mida 2 u, CD mida 4 u y EF mida 1 u. ¿Cuánto mide GH?

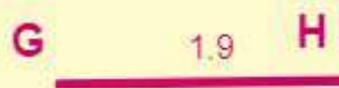
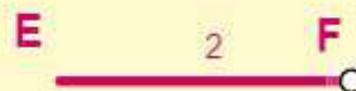
SEGMENTOS PROPORCIONALES



$$\overline{AB} = 1.5$$

$$\overline{CD} = 1.5$$

$$\frac{\overline{AB}}{\overline{CD}} = \frac{1.5}{1.5} = 1$$



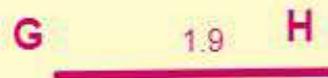
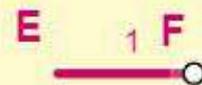
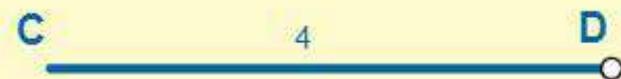
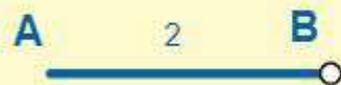
$$\overline{EF} = 2$$

$$\overline{GH} = 1.9$$

$$\frac{\overline{EF}}{\overline{GH}} = \frac{2}{1.9} = 1$$

c. Haz que AB mida 2 u, CD mida 4 u y EF mida 1 u. ¿Cuánto mide GH?

SEGMENTOS PROPORCIONALES



$$\overline{AB} = 2$$

$$\overline{CD} = 4$$

$$\frac{\overline{AB}}{\overline{CD}} = \frac{2}{4} = 0.5$$

$$\overline{EF} = 1$$

$$\overline{GH} = 1.9$$

$$\frac{\overline{EF}}{\overline{GH}} = \frac{1}{1.9} = 0.5$$

- a. Mueve el punto P de forma que la razón entre AP y AB sea 0,5. ¿Cuánto miden ahora AP, AB, CQ y CD? Reinicia el applet.
- b. Mueve el punto D de manera que CD mida 10 u. ¿Cuánto mide ahora CQ?

DIVISIÓN DE UN SEGMENTO SIGUIENDO UNA PROPORCIÓN DADA



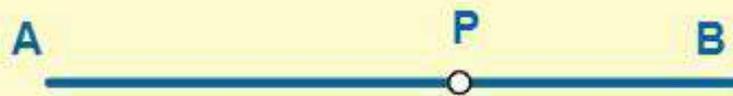
$$\frac{\overline{AP}}{\overline{AB}} = \frac{2.7}{5} = 0.5$$



$$\frac{\overline{CQ}}{\overline{CD}} = \frac{4.3}{8} = 0.5$$

b. Mueve el punto D de manera que CD mida 10 u. ¿Cuánto mide ahora CQ?

DIVISIÓN DE UN SEGMENTO SIGUIENDO UNA PROPORCIÓN DADA



$$\frac{\overline{AP}}{\overline{AB}} = \frac{3}{5} = 0.6$$



$$\frac{\overline{CQ}}{\overline{CD}} = \frac{6}{10} = 0.6$$