



A train travels for 200 kilometers in  $(2 + x)$  hours. Another train travels  $(100 + 20x)$  kilometers in 3 hours. Write a rational expression to represent the speed of the second train to the speed of the first train.

Drag and drop your answer to correctly complete the sentence.

The ratio is .

$$\frac{(5+x)(2+x)}{200}$$

$$\frac{30}{(5+x)(2+x)}$$

$$\frac{200}{(5+x)(2+x)}$$

$$\frac{(5+x)(2+x)}{30}$$

Two sports cars are in a race. The first car travels for 300 kilometers in  $x$  hours. The other car travels  $(200 + 10x)$  kilometers in 2 hours. Write a rational expression to represent the speed of the first sports car to the speed of the second sports car.

$\frac{60}{x(20+x)}$

$\frac{30}{x(20+x)}$

$\frac{100}{x(20+x)}$

$\frac{10}{x(20+x)}$

Two athletes are in a race. The first athlete runs for 20 kilometers in  $x$  hours. Another athlete runs  $(10 + 5x)$  kilometers in  $(x + 1)$  hours. Write a rational expression to represent the speed of the second athlete to the speed of the first athlete.

$\frac{x(2+x)}{4(x+1)}$

$\frac{4(x+1)}{x(2+x)}$

$\frac{4(x-1)}{x(2-x)}$

$\frac{x(2-x)}{4(x-1)}$