After class notes

1.3

In the following exercises, multiply.

1. $\frac{3}{4} \cdot \frac{9}{10} = \boxed{\frac{27}{40}}$

$\frac{a}{b} \cdot \frac{c}{d} = \frac{ac}{bd}$

more detailed presentation

$\frac{3}{4} \cdot \frac{9}{10} = \frac{(3)(9)}{(4)(10)} = \boxed{\frac{27}{40}}$

In the following exercises, divide.

8. $\frac{3}{4} \div \frac{2}{3}$

$\left(\frac{3}{4}\right)\left(\frac{3}{2}\right) = \boxed{\frac{9}{8}}$

$\frac{\frac{a}{b}}{\frac{c}{d}} = \left(\frac{a}{b}\right)\left(\frac{d}{c}\right) = \frac{ad}{bc}$

invert the denominator and multiply

Write number in scientific notation

$987.23 = 9.8723 \times 10^2$

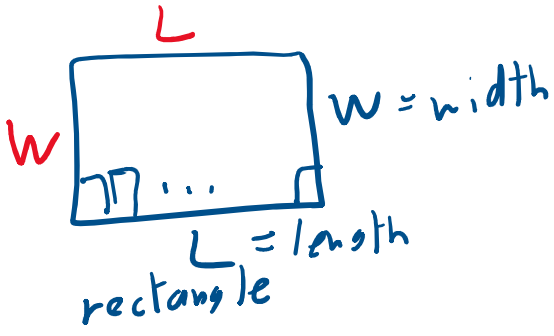
2 places

Scientific Notation

A number is expressed in scientific notation when it is of the form

$a \times 10^n$ where $1 \leq a < 10$ and n is an integer

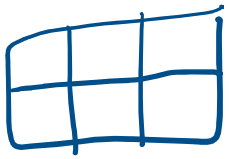
$365 = 3.65 \times 10^2$ $\quad 3.65 = a$



rectangle

A = area

$A = LW$

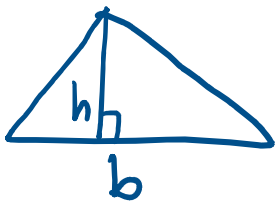


L = 3 units

area = (2 units)(3 units)

$= 6 \text{ unit}^2$

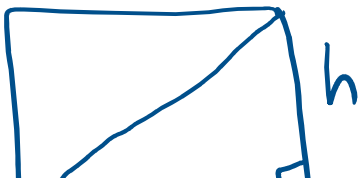
perimeter $= 2(L+W) = 2L + 2W$



area $= \frac{bh}{2} = \left(\frac{1}{2}\right) bh$

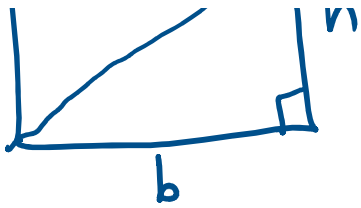
b = base

h = height



area of $\triangle$ $= \left(\frac{1}{2}\right)$ area of rectangle

$= \left(\frac{1}{2}\right)(bh)$



$= (\frac{1}{2})(bn)$