

Chapter 5 Section 3
Multiply Decimals

Multiply as whole numbers.

Place the decimal point in the correct position in the product.

$$2.34(1.2)$$

Multiply: 234 and 12.

Product is 2808.

Count the number of decimal places to the right of the decimal point in each number and sum.

2.34 has 2 decimal places

1.2 has 1 decimal place.

The sum is 3, so in the product, the number must have three decimal places so count from the right, three places.

So, the product is 2.808.

Try:

a) $8.235(2.3)$

b) $(2.22)(-1.23)$

$(-9.23)(-0.018)$

Orders of operation do not change when the numbers are decimals.

If $a = 3.1$, $b = -2.4$, evaluate $a^2 - 3.2b^2$

Circle

center

radius

diameter

Circumference

π

Circumference = πD or $2\pi r$

Find the circumference of a circle that has a radius of 12 inches. Use $\pi = 3.14$ and round to the nearest tenth.

Area = πr^2

Find the area of a circle that has a diameter of 12.5 meters. Use $\pi = 3.14$ and round to the nearest tenth.