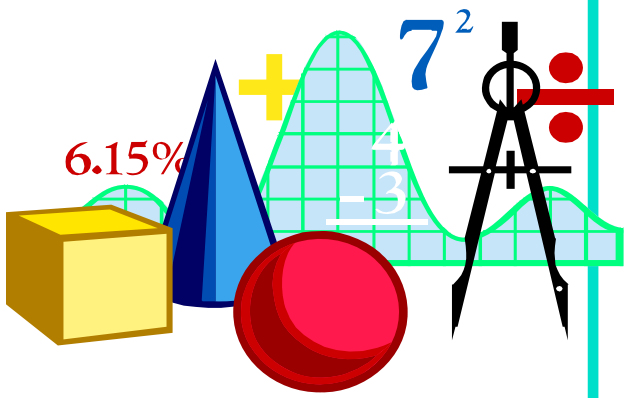
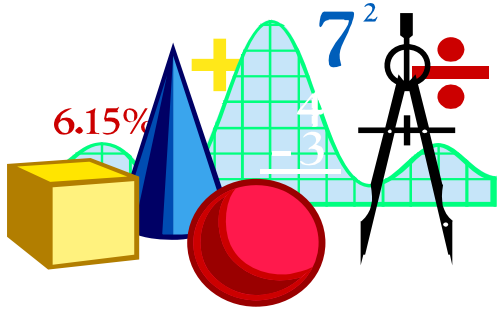
Seven Steps to Solving Math

1. Analyze the problem.
2. Write down the formula.
3. Transpose your figures.
4. Solve any pre-problem.
5. Extend your arithmetic.
6. Solve any tail.
7. Check to make sure you have the right answer, in the form they are seeking.



Land Measurement Quiz



1 foot = ____ inches

1 yard = ____feet

1 mile = ____feet

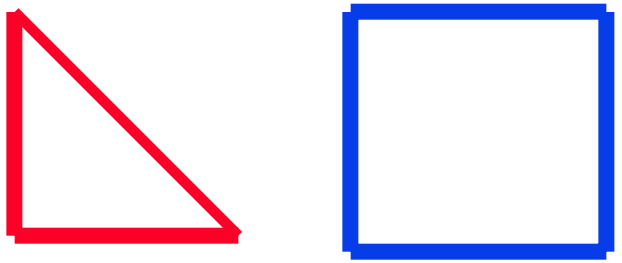
1 sq ft = ____sq inches

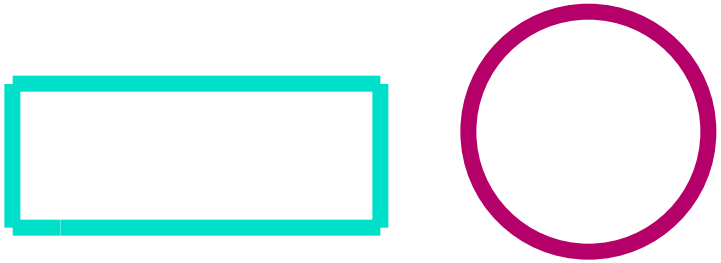
1 sq yard = ____sq feet

1 acre = _____sq feet

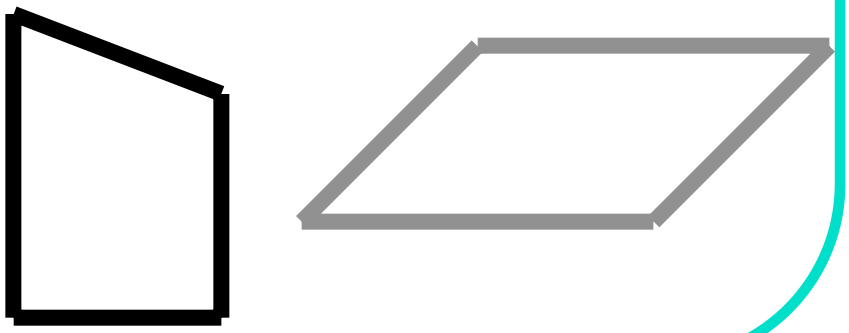
1 sq mile = ____acres

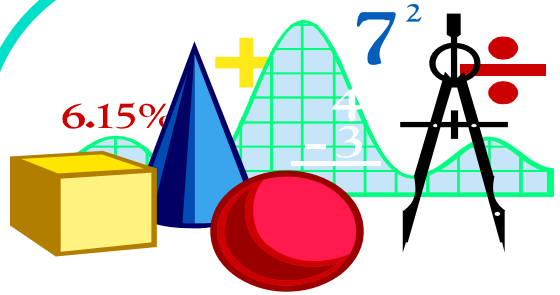
1 section = ____acres





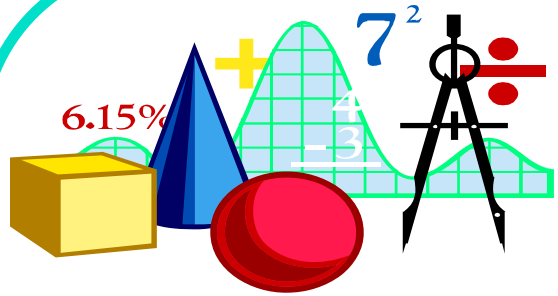
Write the formula for determining the area of the shapes on the right➪➪➪





Value x Rate = Income

4	Value	V
x 2	x Rate	x R
8	Income	I



Math Formula

4 x 2 = ?

4 x ? = 8

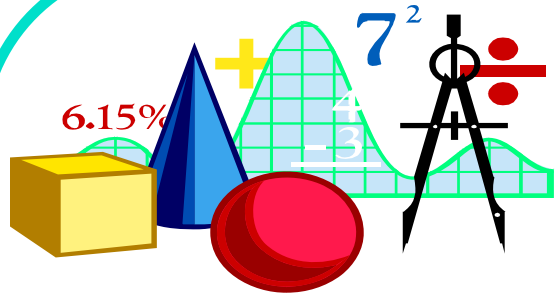
? x 2 = 8

2 x 321,000 = 285,000

7 % x ? % = 5 %

8 x ? = 22,800

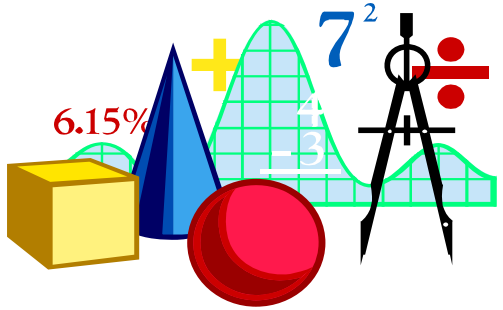
? x 2 = 21,000



V x R = I

V	V	?
x R	x ?	x R
?	I	I

Profit and Loss

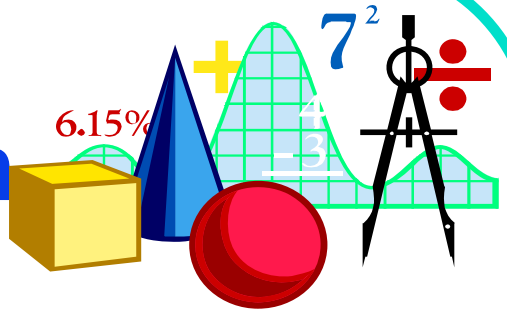


4 B (Value Before Profit/Loss)

x 2 x % (100% + Profit or - Loss)

8 A (Value After Profit/Loss)

Appreciation/Depreciation



4	B	(Value Before Appreciation or Depreciation)
x 2	x %	(100% + Appreciation 100% - Depreciation)
8	A	(Value After Appreciation or Depreciation)

Simple Interest Problem

- You borrowed $20,000 at 10% interest for 2½ years. When you paid the loan and interest back at the end of the loan period, how much did you pay the lender?

Value	$20,000.	$2,000.	$20,000.
x Rate	x 10%	x 2 ½	+ 5,000.
Interest	$2,000.	$5,000.	$25,000.

Commission Problem

- A broker earned a $1,980. commission for selling a timeshare unit at $22,000. What was the sales commission rate?

Value	$22,000.
x Rate	x ?
Income	$1,980.

- $1,980.00 divided by $22,000. = . 09 = 9%

Commission Problem

- A salesperson works for a broker on a 60/40 commission basis (60% to broker & 40% to salesperson). The salesperson sells 50 acres of land at $900. per acre. The gross sales commission is 10% of the sales price. How much does the broker receive?

$900. per acre	$45,000.	$4,500.
x 50 acres	x 10%	x 60%
$45,000.	$4,500.	$2,700.
Sales Price	Total Commission	Broker's Share

Area Problem

- A developer is subdividing a 12-acre tract into lots measuring 80'x110'. Each lot has a perimeter of 380 feet and will sell for $4,500. She has allowed 126,720 square feet for streets and sidewalks. How many lots will be realized.

43,560 sq ft per acre x 12 acres = 522,720 sq ft

522,720 sq ft – 126,720 for streets = 396,000

80 ft x 110 ft = 8,800 square feet per lot

396,000 square feet divided by 8,800 = **45 lots**