

# SOLVING EQUATIONS USING INVERSE OPERATIONS

Inverse operations are operations that UNDO each other.

Operation	Inverse Operation

The formula to find a man's shoe size is  $s = 3f - 24$ , where  $s$  = shoe size and  $f$  = foot length in inches. If a man's shoe size is 9, what is the length of his foot?

Equation to Solve:	
Flow Chart Method:	Algebraic Method:
Solution:	

Ashley is pricing shirts using the formula  $P = 1.72w + 1.80$  where  $P$  is the price she charges her customers and  $w$  is the wholesale cost of the shirt (the price Ashley paid). How much did a shirt cost her if she is selling it to her customers for \$11.26?

Equation to Solve:	
Flow Chart Method:	Algebraic Method:
Solution:	

Kristen heard that it is  $82^\circ$  Fahrenheit outside. She knows that  $F = (9/5)C + 32$ . What is the temperature outside in degrees Celsius?

Equation to Solve:	
Flow Chart Method:	Algebraic Method:
Solution:	

The approximate distance in miles between Los Angeles and a commercial jet flying from Boston to Los Angeles can be found using the equation  $m = -475t + 2,650$ , where  $t$  is the number of hours the jet has been flying. How long has the jet been flying if the jet is 1,500 miles from Los Angeles?

Equation to Solve:	
Flow Chart Method:	Algebraic Method:
Solution:	