1) 

What value of $x$ makes this statement true?
$3 x=2 x+12$

Solve for $t$ :
2)
$t-3(4-t)=-24$

## Solve:

3) 

$2(3 r+4)-3(r+1)=11$
4)

What value of $x$ makes this statement true?
$3 x+4=9 x-8$

Which of these equations have infinite solutions?
5) $2 x+x+5 x-9=-6+9 x-x+3$
6) $10 x-6 x-4-1=7-12+2 x+2 x$
7) $7 x+5+4-9 x=x+2-4+8 x$
8) $5 x-2 x-3-9=x-12+3 x+3 x$

## Which of these statements is correct?

9) The equation $3-x+4=-x+7$ has no solutions.
10) The equation $x-2=15 x+8-9 x$ has one solution.
11) The equation $4 x+5+8 x=25+2 x$ has two solutions.

The equation $9+3 x-1=10+3 x$ has an infinite
12) number of solutions.

Why does the equation
$9-2 x-9-16 x=-14 x-7-4 x-11$ have no solutions?
13) because if you add $18 x$ to both sides of the equation and simplify, you get $-18=-18$
because if you add $18 x$ to both sides of the
14)
equation and simplify, you get $0=-18$
15) because if you subtract $18 x$ from both sides of the equation and simplify, you get $-18=-18$
16)because if you subtract $18 x$ from both sides of the equation and simplify, you get $0=-18$

## DOING EXTRAS!

17) 

A shipping company charges a $\$ 5$ flat fee for a package, plus a fee based on the weight of the package. The company charges $\$ 1.50$ per pound, plus an additional \$0.50 for every pound over 5 pounds.

Jakob plans on sending a package that is over 5 pounds. He has $\$ 30$ to spend on shipping. What is the maximum number of pounds that his package could be? Enter your answer as a decimal.
18) David wants to buy a new tablet computer. He looks at a sales ad and sees that a computer store is selling a tablet computer for \$499
which is $\frac{1}{3}$ off the regular price.
Part A:
Write an equation that represents the situation. Let $x=$ the original cost of the tablet.

Part B:
Find the original cost of the tablet computer.

