

SOLVING EQUATIONS WITH VARIABLES ON BOTH SIDES OF EQUAL SIGN

1. USE THE _____ TO GET RID OF ANY _____.
2. COMBINE _____ TERMS SEPARATELY ON EACH SIDE OF THE EQUAL SIGN..
3. CHOOSE WHICH SIDE YOU WOULD LIKE YOUR VARIABLE ON. ADD OR SUBTRACT TO MAKE AN INVISIBLE _____ ON THE OTHER SIDE.
4. SOLVE USING RULES FOR EQUATIONS WITH VARIABLE ON ONE SIDE OF EQUAL SIGN.
5. REMEMBER TO VERIFY BY SUBSTITUTION.

Booth rental at Oil Patch is \$50. You are selling bags of cotton candy. Each bag costs you 20 cents to make. You sell each bag for \$1.00. How many bags of cotton candy do you need to sell to break even (revenue = costs)?

Costs =

Revenue =

Another booth is selling popcorn. Each bag of popcorn costs only 15 cents to make. However, it can only be sold for 50 cents per bag. How many bags of popcorn must this booth sell to break even (revenue = costs)?

Costs =

Revenue =