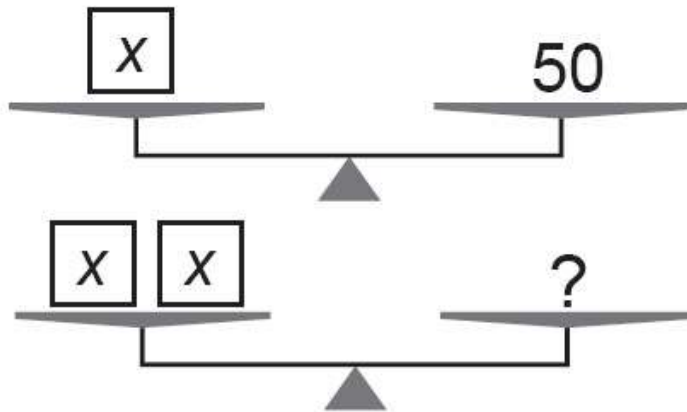
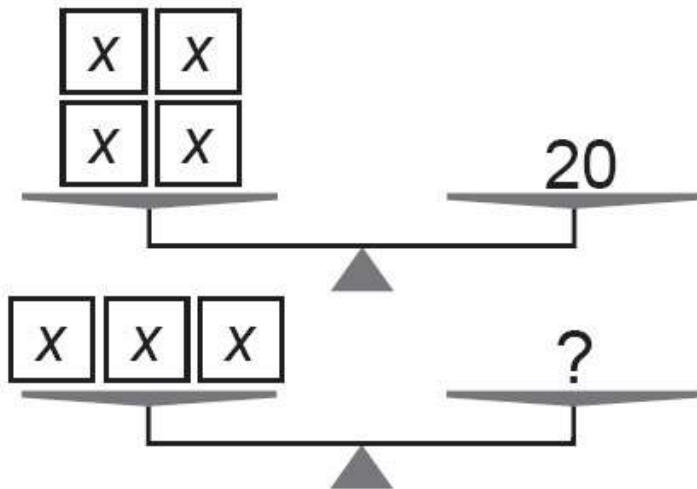


Write the answers in the box, then fill in the blanks in the proof.



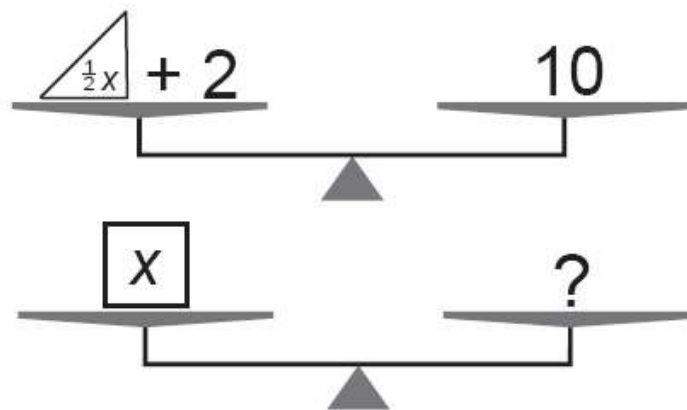
Problem 1
 $X =$
 $? =$

From the 1st scale we know: $x = 50$.
 Substitute ___ for x in: $2x = ?$ (2nd scale).
 So $2(\underline{\quad}) = 100 = ?$



Problem 2
 $X =$
 $? =$

From the 1st scale we know: $4x = 20$.
 Divide both sides of this equation by 4
 so $x = \underline{\quad}$. Substitute ___ for x in:
 $3x = ?$ (2nd scale). So $\underline{\quad}(5) = 15 = ?$



Problem 3
 $\frac{1}{2} X =$
 $? =$

From the 1st scale we know: $\frac{1}{2}x + 2 = 10$.
 Subtract ___ from both sides of this
 equation so $\frac{1}{2}x = \underline{\quad}$. Substitute ___ for
 each $\frac{1}{2}x$ in: $x = ?$ (2nd scale).
 (Note: $1x$ is the same as x .)
 So $\underline{\quad} + \underline{\quad} = \underline{\quad} = ?$

Answers:

1. From the 1st scale we know: $x = 50$. Substitute **50** for x in: $2x = ?$ (2nd scale). So $2(50) = 100 = ?$
2. From the 1st scale we know: $4x = 20$. Divide both sides of this equation by 4 so $x = 5$. Substitute **5** for x in: $3x = ?$ (2nd scale). So $3(5) = 15 = ?$
3. From the 1st scale we know: $\frac{1}{2}x + 2 = 10$. Subtract **2** from both sides of this equation so $\frac{1}{2}x = 8$. Substitute **8** for each $\frac{1}{2}x$ in: $x = ?$ (2nd scale). (Note: $1x$ is the same as x .) So $8 + 8 = 16 = ?$