**Algebra 1 Notes** **Section 1-3: Solving Equations by Multiplying or Dividing**

***Objective:**

Use inverse operations to undo the operations on the variable.

To keep the balance, whatever you do on side of the equation, you must also do on the other side.


Solve each equation. Check your answer.

**1a.** $\frac{p}{5} = 10$ **1b.** $-13 = \frac{y}{3}$ **1c.** $\frac{c}{8} = 7$


Solve each equation. Check your answer.

**2a.** $16 = 4c$ **2b.** $0.5y = -10$ **2c.** $15k = 75$

Remember that dividing is the same as multiplying by the reciprocal. (FRACTIONS)


Solve each equation. Check your answer.

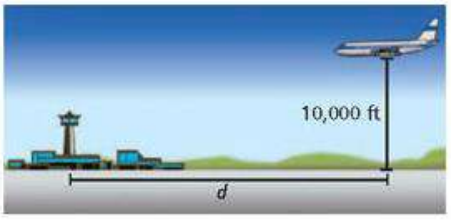
**3a.** $-\frac{1}{4} = \frac{1}{5}b$ **3b.** $\frac{4j}{6} = \frac{2}{3}$ **3c.** $\frac{1}{6}w = 102$

CHECK IT OUT!

4. **What if...?** A plane began descending 45 miles from the airport. Use the equation above to find how high the plane was flying when the descent began.

### Aviation Application

The distance in miles from the airport that a plane should begin descending, divided by 3, equals the plane's height above the ground in thousands of feet.




| *Properties of Equality | | |
|---|---|---|
| *Words | *Numbers | *Algebra |
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**Inclass: p. 29 #47, 65**
**Homework: p. 27-28 #21-59(odd), not #47, 49, 51**

**Homework Help?**