

Notes 1-2**Int 2****One-Step Equations with Rational Coefficients****Unit 1**

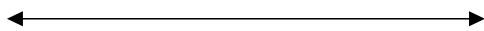
Solve each equation or inequality. Check your solution. Graph the solution set for inequalities.

1. $t + 7.2 = 1.65$

6. $6 = \frac{1}{12}v$

2. $-0.4 \leq g - 4.9$

7. $-\frac{2}{3}w = 60$



3. $y - \frac{2}{5} = 1\frac{3}{5}$

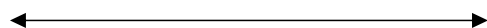
8. $-\frac{7}{8}k = -21$

4. $-5\frac{1}{6} = 2\frac{1}{3} + p$

9. $9.6 = 1.2b$

5. $2\frac{3}{4} = x - 3\frac{1}{8}$

10. $0.75a \geq -9$



$$11. -413.4 = -15.9n$$

$$12. 3\frac{1}{10}s = 6\frac{1}{5}$$

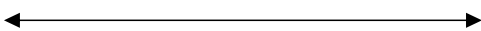
Solve each equation. Check your solution.

$$13. 2\frac{2}{9} = -\frac{4}{5}m$$

$$18. -226.8 = 21.6y$$

$$14. -2\frac{4}{5} < -3\frac{1}{2}n$$

$$19. -30 = 1.25c$$



$$20. 1\frac{1}{2}x = 9\frac{9}{20}$$

$$15. -\frac{3}{4}t = 5$$

$$21. -12\frac{2}{3} = -1\frac{1}{9}y$$

$$16. -\frac{2}{9}g = -\frac{7}{9}$$

$$22. 1\frac{5}{7} = 1\frac{13}{14}a$$

$$17. 0.6w = 0.48$$

Determine whether each statement is *true* or *false*. Explain your reasoning.

23. The product of a fraction and its multiplicative inverse is 1.

24. A store is having a “half price” sale on notebook computers. Which equation can be used to find the regular price x of a notebook computer that is on sale for \$799?

A. $799x = 0.5$

C. $\frac{1}{799}x = 0.5$

B. $0.5x = 799$

D. $\frac{1}{0.5}x = 799$

25. **Find the Error.** Sarah is solving the equation $-\frac{7}{8}x = 24$.

Circle her mistake and correct it.

$$\begin{aligned} -\frac{7}{8}x &= 24 \\ \left(\frac{7}{8}\right) - \frac{7}{8}x &= 24\left(\frac{7}{8}\right) \\ x &= 21 \end{aligned}$$

26. **Find the Error.** Jack is solving the equation $\frac{2}{9} = \frac{4}{5}m$. Circle his mistake and correct it.

$$\frac{2}{9} = \frac{4}{5}m$$
$$\frac{2}{9} \div \frac{5}{4} = \frac{4}{5} \div \frac{5}{4}m$$
$$\frac{8}{45} = m$$

27. What is the reciprocal of $-\frac{4}{3}$?

A. $-1\frac{1}{3}$

C. $\frac{3}{4}$

B. $-\frac{3}{4}$

D. $1\frac{1}{3}$