

2.4**Challenge Practice**

For use with pages 85–89

Solve the equation using mental math.

1. $6 - a = -4$

2. $\frac{r}{-8} = 7$

3. $-29 = t + 4$

4. $75 = -5b$

5. Three textbooks weigh a total of 6.5 pounds. The science book weighs 1.75 pounds and the math book weighs 2.25 pounds. How much does the social studies book weigh?

Write the verbal sentence as an equation. Then solve the equation using mental math.

6. The difference of 4 and x is -10 .
7. The quotient of 120 and r is 30.
8. Solve the equation $2x - 3 = 13$ using mental math. Explain the reasoning you used to find the solution.
9. Solve the equation $\frac{x}{4} + 2 = 3$ using mental math. Explain the reasoning you used to find the solution.