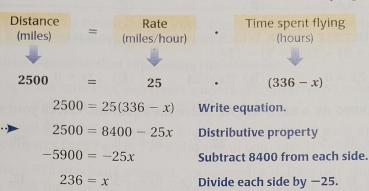
EXAMPLE 5 Write and solve an equation

BIRD MIGRATION A flock of cranes migrates from Canada to Texas. The cranes take 14 days (336 hours) to travel 2500 miles. The cranes fly at an average speed of 25 miles per hour. For how many hours of the migration are the cranes not flying?

Solution

Let x be the amount of time the cranes are not flying. Then 336 - x is the amount of time the cranes are flying.





You can also begin solving the equation by dividing each side of the equation by 25.

The cranes are not flying for 236 hours of the migration.



GUIDED PRACTICE

for Example 5

5. WHAT IF? In Example 5, suppose the cranes take 12 days (288 hours) to travel 2500 miles. For how many hours of this migration are the cranes *not* flying?

3.3 EXERCISES

HOMEWORK

- = MULTIPLE CHOICE PRACTICE Exs. 25, 26, 54, and 63-65
- = HINTS AND HOMEWORK HELP for Exs. 21, 43, and 55 at classzone.com

Crane

SKILLS · PROBLEM SOLVING · REASONING

- 1. **VOCABULARY** What is the reciprocal of the fraction in the equation $\frac{3}{5}(2x+8)=18$?
- **2. WRITING** Describe the steps you would use to solve 3(4y 7) = 11.

COMBINING LIKE TERMS Solve the equation. Check your solution.

EXAMPLE 1

on p. 139 : for Exs. 3-14

- 3. p + 2p 3 = 6
- **6.** 5a + 3 3a = -7 **7.** 6c 8 2c = -16
- 9. -2 = 3y 18 5y
- 12. 4d 13 + 7d = -24
- **4.** $12\nu + 14 + 10\nu = 80$
- 10. 23 = -4m + 2 + m
- 5. 11w 9 7w = 15
- **8.** 9 = 7z 13z 21
- 11. 35 = -5 + 2x 7x
- **13.** -9 = 2b 11b 27 **14.** -23 = 26h 7 + 6h