SOLVING EQUATIONS Solve the equation, if possible.



CHALLENGE Find the value(s) of *a* for which the equation is an identity.

47. a(2x + 3) = 9x + 12 - x

48.
$$10x - 35 + 3ax = 5ax - 7a$$

PROBLEM SOLVING

EXAMPLE 3 on p. 155 for Exs. 49–51 **49. CAMPING** The membership fee for joining a camping association is \$45. A local campground charges members of the camping association \$35 per night for a campsite and nonmembers \$40 per night for a campsite. After how many nights of camping is the total cost for members, including the membership fee, the same as the total cost for nonmembers?

TEXAS @HomeTutor for problem solving help at classzone.com

50. HIGH-SPEED INTERNET Dan and Sydney are getting high-speed Internet access at the same time. Dan's provider charges \$60 for installation and \$42.95 per month. Sydney's provider has free installation and charges \$57.95 per month. After how many months will Dan and Sydney have paid the same amount for high-speed Internet service?

TEXAS @HomeTutor for problem solving help at classzone.com

51. **LANGUAGES** Information about students who take Spanish and students who take French at a high school is shown in the table. If the trends continue, in how many years will there be 3 times as many students taking Spanish as French?

Language	Students enrolled this year	Average rate of change
Spanish	555	33 more students each year
French	230	2 fewer students each year





