Solving Equations by Adding or Practice 2-5 Subtracting

Use mental math to solve each equation.

1.
$$-52 = -52 + k$$

3.
$$x - 155 = 15$$

5.
$$2,000 + y = 9,500$$

7.
$$111 + f = 100$$

2.
$$837 = p + 37$$

4.
$$180 = 80 + n$$

6.
$$81 = x - 19$$

8.
$$w - 6 = -16$$

Solve each equation.

9.
$$m - 17 = -8$$

11.
$$-44 + n = 36$$

13.
$$x - 255 = 671$$

15.
$$x + 14 = 21$$

17.
$$-19 = k + 9$$

19.
$$36 + n = 75$$

21.
$$41 + k = 7$$

23.
$$-88 + z = 0$$

25.
$$t + (-2) = -66$$

10.
$$k - 55 = 67$$

12.
$$-36 = p - 91$$

14.
$$19 = c - (-12)$$

16.
$$31 = p + 17$$

18.
$$87 + y = 19$$

20.
$$-176 = h + (-219)$$

22.
$$1,523 + c = 2,766$$

24.
$$-33 + (-7) = 29 + m$$

26.
$$-390 + x = 11 - 67$$

27. The combined enrollment in the three grades at Jefferson Middle School is 977. There are 356 students in the seventh grade and 365 in the eighth grade. Write and solve an equation to find how many students are in the ninth grade.

Solution _____

Nam	me Clas	SS	Date
2-5 • Guided Problem Solving			
GPS Student Page 89, Exercise 22			
Languages In 1996, 487 million people across the world spoke English. This was 512 million people fewer than the number who spoke Mandarin Chinese. Write and solve an equation to find the number of people <i>n</i> who spoke Mandarin Chinese.			
Read and Understand			
1.	How many people in the world spoke English in 1996?		
2.	. What information are you given about the num of people who spoke Mandarin Chinese in 199		
	What are you asked to do?an and Solve		
••••	. Use the sentence "In millions, 487 is 512 fewer	r than the number of	
	people n who spoke Mandarin Chinese" to wi be solved for n , the number of people who spo	rite an equation that can	
5.	. What number should you add to each side of equation to get the variable <i>n</i> alone on one side		-
6.	. Solve the equation for <i>n</i> .		-
7.	. How many people in the world spoke Mandarin Chinese in 1996?		**************************************
****	Sook Back and Check Subtract 512 million from your answer to Que The result should be equal to the number of p who spoke English in 1996.		_

9. There are 32 eighth-grade students enrolled in physical science. This is 119 fewer than the number of students enrolled in Earth science. Write and solve an equation to find the number of students *s* who are enrolled in Earth science.

Solve Another Problem