Date:

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Chapter 7 Test Study Guide

Identify the solution of each equation from the list given.

20.
$$a + 15 = 23; 6, 7, 8$$
 8
Try 6. Try 7. Try 8.
 $6 + 15 \neq 23$ $7 + 15 \neq 23$ $8 + 15 = 23$ \checkmark
Homework
 $19 \neq 29 - 12; 29, 30, 31$ 31
 $19 \neq 29 - 12; 9, 30, 31$ 91
 $19 \neq 29 - 12; 9, 30, 31$ 91
 $19 \neq 29 - 12; 9, 30, 31$ 91
 $19 \neq 29 - 12; 9, 30, 31$ 91
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 $19 \neq 29 - 12; 9, 30, 31$ 91
 $19 \neq 29 - 12; 91$ 91
 $19 \neq 19$ 91
 $19 \neq 19$ 91
 $19 \neq 19$ 91
 $19 \neq 19$ 91
 $31_{0} \div 9 = 9$
 $31_{0} \div 10 \neq 4$
 $31_{0} \div 10 \neq 4$

Solve each equation mentally.

Name: ANSWER Kee



Identify Structure For Exercises 30–32, solve using mental math or the guess, check, and revise strategy.

- **30.** Gabriella made 36 cookies. She gave away 28 cookies. Use the equation 28 + c = 36 to find c, the number of cookies she kept. 28 + 8 = 36 C = 8 cookies.
- **31.** The Lee family ate a total of 12 hotdogs at a cookout. Each family member ate 2 hotdogs. Use the equation 2m = 12 to find *m*, the number of members in the Lee family. $2(c_{0}) = 12$ m = 6 members
- **32.** A bottlenose dolphin is 96 inches long. There are 12 inches in 1 foot. Use the equation 12d = 96 to find d, the length of the bottlenose dolphin in feet. |2(8) = 96 d = 8 flet

 1. 8x = 128 a. x = 68

 2. 13 + x = 29 b. x = 39

 3. 72 = 3x c. x = 18

 4. x - 22 = 17 b. x = 16

 5. $\frac{x}{4} = 17$ c. x = 16

 6. x - 18 = 33 f. x = 51

Solve the equation by isolating the variable (the way Mrs. Galante showed you). Check your solution. Show all steps!

For problems 22 - 25, write an equation to represent the situation. Then solve the equation.

22) You have 17 CDs on a shelf. You received five of those CDs today as birthday presents. Write and solve an addition equation to find *c*, the number of CDs you had before your birthday.

Equation:
$$C + 5 = 17$$
 $C = 12 \text{ CDs}$
 $C + 5 = 17$
 $-5 - 5$ $12 + 5 = 17$
 $C = 12$

23) You earn d dollars for sixteen hours of work at a rate of \$5 per hour. Write and solve a division equation to find the amount of money you earn.

Equation:
$$\frac{d}{16} = 5 \text{ or } \frac{d}{5} = 16$$
 $d = 80
 $(N_{2}) \frac{d}{16} = 5(16)$ $\frac{80}{16} = 5\sqrt{}$

24) You pay \$24.50 for shoes after an \$8 discount. Write and solve a subtraction equation to find *s*, the original price for the shoes.

Equation:
$$S - 8 = 24.50$$

 $S - 8 = 24.50$
 $5 - 8 = 24.50$
 $5 - 8 = 24.50$
 $5 - 8 = 24.50$
 $5 - 8 = 24.50$
 $5 = 32.50$

25) Lauren pays \$34 for four books. Write a multiplication equation to find, *p*, the price of each book.

Equation:
$$\frac{4\rho = 34}{4\rho = 34}$$
 $\rho = \$8,50$
 $\frac{4\rho}{4} = \frac{34}{4}$ $4(8\frac{1}{2}) = 34$
 $\rho = 8\frac{1}{2}$ $\frac{24}{1} \times \frac{17}{2} = \frac{34}{1}$