

SKILL 14: Practice

1-18 Show work on the back

solve each equation, tell what you will do first to both sides.

1. $2x + 7 = 13$

2. $-3n - 8 = 7$

3. $2x - 9 = 11$

4. $-5x + 6 = 36$

5. $10x + (-9) = 21$

6. $4x - 13 = 3$

7. $-5m + 12 = -9$

8. $8k - 11 = 13$

9. $-6n - (-2) = 8$

Solve each equation. Check your solutions.

10. $3b + (-7) = -25$

11. $\frac{n}{-4} + (-3) = 8$

12. $16 = 4h - 12$

$b =$

$n =$

$h =$

13. $\frac{x}{6} - (-10) = 3$

14. $8w - 17 = -89$

15. $\frac{c}{7} - 12 = -4$

$x =$

$w =$

$c =$

16. $\frac{p}{-5} + 12 = 20$

17. $5j + (-16) = -76$

18. $\frac{k}{-3} + (-8) = -8$

$p =$

$j =$

$k =$

For each problem, write an equation. Then solve.

19. Linda had \$15 in her coin bank. On her birthday, 5 relatives sent her money as a birthday gift. Each relative sent the same amount. She then had \$115. How much money did Linda receive from each relative?

20. Gorillas and chimpanzees can learn sign language to communicate with humans. By 1982, a gorilla named Koko had learned 700 words. This is 50 fewer than 5 times as many words as a chimpanzee named Washoe knew 10 years earlier. How many words did Washoe know?

1) $2x + 7 = 13$

Coefficient

Constant

To solve:

- Eliminate the constant 1st using the additive inverse.

- Eliminate the coefficient using the multiplicative inverse.

1) $2x + 7 = 13$
 $-7 -7$

$2x = 6$
 $\frac{2x}{2} = \frac{6}{2}$

$x = 3$

TEST PREP

21. Solve: $4x - 8 = 32$.

Skill 14

A 10

C 6

B 8

D -6

22. Solve: $n + 15 = 22$.

Skill 13

F -8

H 7

G -7

J 17