Name _____ Date _____ Class _____

Homework and Practice
Solving Equations Containing Integers

Solve. Check your answers.

1. $x - 7 = -5$
   $+7 \quad +7$
   $\underline{x = 2}$

2. $r - 5 = -18$
   $+5 \quad +5$
   $\underline{r = -13}$

3. $11 = n - 16$
   $+16 \quad +16$
   $\underline{n = 27}$

4. $v + 22 = 12$
   $-22 \quad -22$
   $\underline{v = -10}$

5. $\dfrac{5c}{5} = \dfrac{-75}{5}$
   $\underline{c = -15}$

6. $\dfrac{300}{-25} = \dfrac{-25t}{-25}$
   $\underline{-12 = t}$

   $25\overline{)300} \quad \dfrac{12}{}$
   $\dfrac{25\downarrow}{50}$

7. $\dfrac{6h}{6} = \dfrac{-42}{6}$
   $\underline{h = -7}$

8. $\dfrac{-4d}{-4} = \dfrac{-28}{-4}$
   $\underline{d = 7}$

9. $\dfrac{96}{4} = \dfrac{4a}{4}$
   $\underline{a = 24}$

   $4\overline{)96} \quad \dfrac{24}{}$
   $\dfrac{-8\downarrow}{16}$

10. $\dfrac{s}{8} = -9$
    $\underline{s = -72}$

11. $\dfrac{m}{-4} = 9$
    $\underline{m = -36}$

12. $\dfrac{e}{-5} = -5$
    $\underline{e = 25}$

13. $y + 18 = -21$
    $-18 \quad -18$
    $\underline{y = -39}$

14. $-49 = 7u$
    $\underline{u = -7}$

15. $k + 24 = -16$
    $-24 \quad -24$
    $\underline{k = -40}$

16. $-54 = -9f$
    $\underline{f = 6}$

17. $18 + w = -14$
    $-18 \quad -18$
    $\underline{w = -32}$

18. $\dfrac{x}{3} = 12$
    $\underline{x = 36}$

19. $-35 = d - 28$
    $+28 \quad +28$
    $\underline{d = }$

20. $\dfrac{s}{-7} = 9$
    $\underline{s = -63}$

21. $-8 = 25 - g$ **tricky!!**
    $-25 \quad -25$
    $\underline{-33 = -g}$
    $\boxed{33 = g}$

22. The temperature in Chicago was −5°F. This was 32°F colder than the temperature in New York City on the same day. What was the temperature in New York City on that day?

    $-5 + 32 = 27°$

23. This year, a small corporation made a profit of $12 million. This is $8 million more than last year's profit. What was last year's profit?

    4 million

Holt Mathematics

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