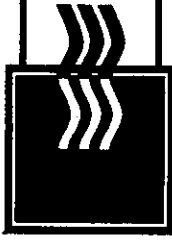


# BOOKS NEVER WRITTEN

How to Make Big Bucks by 4 12 13 5 10 9 6 8 13 1 12

Inside a Garbage Truck by 12 14 7 13 2 10 15 14 5 9 2 3

Sculpting the Gods of Ancient Rome, Quite Beautifully by 11 14 15 2



Solve the equation by factoring, then find your solution in the answer column. Each time the exercise number appears in the code, write the letter of the solution in the space above it. If the answer has a  $\bullet$ , leave the space blank.

1  $x^2 + 7x + 12 = 0$       2  $a^2 - 17a + 30 = 0$       3  $w^2 - 81 = 0$

4  $y^2 + 3y - 10 = 0$       5  $g^2 - 5g - 24 = 0$       6  $m^2 - 7m = 0$

7  $2d^2 + 11d + 5 = 0$       8  $3x^2 - 8x - 11 = 0$       9  $5t^2 + 9t - 18 = 0$

10  $4n^2 + 7n + 3 = 0$       11  $12c^2 + 8c + 1 = 0$       12  $9k^2 + 45k = 0$

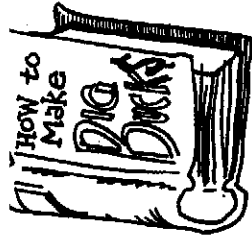
13  $8p^2 + 2p - 15 = 0$       14  $x^2 + 10x + 25 = 0$       15  $4y^2 - 49 = 0$

Answers 1-8

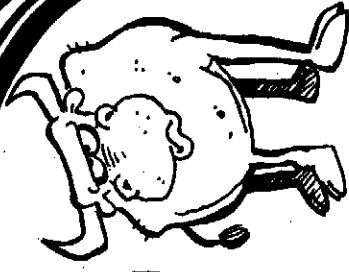
- |                                  |                |                          |                      |
|----------------------------------|----------------|--------------------------|----------------------|
| W $\{-5, -\frac{1}{2}\}$         | M $\{3, 10\}$  | L $\{-3, 8\}$            | E $\{2, 15\}$        |
| $\bullet$ $\{-11, \frac{1}{3}\}$ | C $\{-4, -3\}$ | R $\{-1, \frac{11}{3}\}$ | $\bullet$ $\{0, 7\}$ |
| P $\{-5, 2\}$                    | U $\{-4, 6\}$  | N $\{\pm 9\}$            | D $\{-1, 10\}$       |

Answers 9-15

- |                                    |                         |  |                                  |
|------------------------------------|-------------------------|--|----------------------------------|
| F $\{-3, \frac{1}{4}\}$            | H $\{-5, 0\}$           | $\bullet$ $\{-\frac{5}{2}, -\frac{3}{4}\}$ | O $\{-5\}$                       |
| I $\{-\frac{3}{2}, \frac{5}{4}\}$  | V $\{\pm \frac{7}{2}\}$ | J $\{-\frac{1}{2}, -\frac{1}{6}\}$         | G $\{-6, \frac{3}{5}\}$          |
| S $\{-\frac{1}{3}, -\frac{1}{4}\}$ | T $\{-3, \frac{6}{5}\}$ | A $\{\pm \frac{4}{7}\}$                    | $\bullet$ $\{-1, -\frac{3}{4}\}$ |



# What Do You Call It When a Bull Eats a Bomb?



Solve using the quadratic formula (some answers are rounded). Look for the letter of the correct answer in the string of letters near the bottom of the page and cross it out each time it appears. When you finish, write the remaining letters in the space provided.

1  $x^2 + 5x + 4 = 0$       2  $x^2 - 7x + 12 = 0$

3  $x^2 + 3x - 10 = 0$

4  $x^2 - 6x + 7 = 0$

5  $a^2 - 8a - 11 = 0$

6  $n^2 + 4n - 9 = 0$

7  $2x^2 - 7x + 5 = 0$

8  $2y^2 + 2y - 11 = 0$

9  $2t^2 - 8t - 15 = 0$

10  $3x^2 + 10x + 8 = 0$

answers 1-5

H 4.4, 1.6

O 6, 2

L 8.8, -1.6

G -1, -4

P 2, -5

D 9.2, -1.2

E 4.9, 1.3

C 4, 3

I 2.2, -4.9

answers 6-10

M -0.67, -4

S 5.4, -1.4

R 1.6, -5.6

N 0.5, 5

U 1.9, -2.9

A 6.2, -2.2

T -1.33, -2

B 1.4, -3.8

F 2.5, 1

**S T A B R C T O F U S M G P R I N T H A B C S L U P E D**

answer to puzzle:

**Extra:**

The area of the rectangle at the right is 30 square units. Find the value of  $x$ .

