

## A Calculator-Assisted Fairy Tale

from the December 1979 *Mathematics Teacher*

Directions: Use a calculator to solve the forty-two problems listed below to find the missing words in the fairy tale. Each solution will provide a word for the story if you turn your calculator upside down.

1.  $\sqrt{692,224} = \underline{\hspace{2cm}}$

2.  $45^3 - 91,105 = \underline{\hspace{2cm}}$

3.  $3,253,052 \div 95,678 = \underline{\hspace{2cm}}$

4.  $27 + 59 + 102 + 39.4 + 107.6 = \underline{\hspace{2cm}}$

5.  $573,841,327 - 146,729,330 - 427,111,780 = \underline{\hspace{2cm}}$

6.  $16,133,202 \div 3,578 = \underline{\hspace{2cm}}$

7.  $15\left(\frac{104,841 \times 2}{99}\right) = \underline{\hspace{2cm}}$

8.  $(27 \times 27) + (25 \times 7) = \underline{\hspace{2cm}}$

9.  $\frac{0.028 \times 1,456}{0.0002} - 203,501 = \underline{\hspace{2cm}}$

10.  $5,853.473 + (24.78 \times 89.65) = \underline{\hspace{2cm}}$

11.  $244,593,909 \div 6,987 = \underline{\hspace{2cm}}$

12.  $\frac{\sqrt{20,449}}{\sqrt{4,000,000}} = \underline{\hspace{2cm}}$

13.  $\frac{9!}{3^2} - \frac{159,900}{2^2} = \underline{\hspace{2cm}}$

14.  $915.05 - (23.8 - 16.75) = \underline{\hspace{2cm}}$

15.  $\frac{1}{25,000} \times 177,700 \times 1,000 = \underline{\hspace{2cm}}$

16.  $625 \times 25^2 - 352,887 = \underline{\hspace{2cm}}$

17.  $10 \left( \frac{11,359,672 - 4,382,715}{98,267} \right) = \underline{\hspace{2cm}}$

18.  $15.067 + 138.94 + 207.5 + 9.623 + 566.87 = \underline{\hspace{2cm}}$

19.  $199,444.68 \div 36.21 = \underline{\hspace{2cm}}$

20.  $3 \times 0.5 \times 3^5 - 29.5 = \underline{\hspace{2cm}}$

21.  $(2^3)(26.31 + 37.94) = \underline{\hspace{2cm}}$

22.  $124 \times 35 \times 76 - 294,831 = \underline{\hspace{2cm}}$

23.  $\sqrt[4]{2,560,000} = \underline{\hspace{2cm}}$

24.  $\sqrt{4,096} \times \sqrt{5,184 + 307} = \underline{\hspace{2cm}}$

25.  $2,929,073 \div 23^2 =$  \_\_\_\_\_
26.  $\sqrt{2,085,136} \div \sqrt{1,444} =$  \_\_\_\_\_
27. Find the sum of 128, 39, 46, 72, 55, 27, 34, 376, 1023, 38, 77, 299, 1834, and 460. \_\_\_\_\_
28.  $\frac{2 \times 85,197}{3 \times 56,798} =$  \_\_\_\_\_
29.  $\frac{11 \cdot 12 \cdot 13 \cdot 14}{3} - 294 =$  \_\_\_\_\_
30.  $41,539\frac{1}{2} \div 45\frac{1}{4} =$  \_\_\_\_\_
31.  $\frac{2 \cdot 3 \cdot 5 \cdot 7 \cdot 11 \cdot 13}{\frac{7}{2}} - 1,475 =$  \_\_\_\_\_
32.  $2^2 \cdot 3^2 \cdot 5^2 \cdot 7^2 + 4^3 \cdot 6^3 - 8^4 - 783 =$  \_\_\_\_\_
33.  $2^5 (626.25)(0.0000002) =$  \_\_\_\_\_
34.  $0.0032712 \div 0.47 \div 0.58 \div 0.24 =$  \_\_\_\_\_
35.  $8! + \frac{2,332,575}{63} =$  \_\_\_\_\_
36.  $7 \times 73 \times 17,471 - (8,923,989 - 12) =$  \_\_\_\_\_

37. From ten million, subtract one hundred thousand.  
From the result, subtract nine million one thousand.  
Next, subtract eight hundred thousand.  
Lastly, subtract fifty-three. \_\_\_\_\_
38.  $16^3 \times 2^4 - (0.10158 \div 0.00001) =$  \_\_\_\_\_
39.  $100 \times 10^4 - (999 \times 10^3) - 7 =$  \_\_\_\_\_
40. hOLE - LGI = \_\_\_\_\_
41.  $\left(\frac{1}{4}\right)^4 \times 1,000,000 + 1,007.75 =$  \_\_\_\_\_
42. Take 200 away from BLESS = \_\_\_\_\_

Now, fill in the blanks in the story on the next page with the answers from the 42 problems. Remember to turn your calculator upside down to obtain each word.

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Once upon a time there was a handsome prince named (1) \_\_\_\_\_, who lived in the country of (2) \_\_\_\_\_. (3) \_\_\_\_\_ went to (4) \_\_\_\_\_ a beautiful princess named (5) \_\_\_\_\_. She said, "(6) \_\_\_\_\_, my father, King (7) \_\_\_\_\_, says before we may marry, you have to slay the (8) \_\_\_\_\_.

"(9) \_\_\_\_\_," he answered, "That's a difficult task because the (10) \_\_\_\_\_ is (11) \_\_\_\_\_ in the (12) \_\_\_\_\_. If (13) \_\_\_\_\_ were back in the (14) \_\_\_\_\_ I could (15) \_\_\_\_\_ that (16) \_\_\_\_\_ in (17) \_\_\_\_\_. Why don't you (18) \_\_\_\_\_ the (19) \_\_\_\_\_ to (20) \_\_\_\_\_ it my way and let me kill (21) \_\_\_\_\_ (22) \_\_\_\_\_ instead?"

"(23) \_\_\_\_\_," said the princess with a (24) \_\_\_\_\_, "you are (25) \_\_\_\_\_ brave than you should (26) \_\_\_\_\_."

"(27) \_\_\_\_\_!" he cried, "(28) \_\_\_\_\_ am not over the (29) \_\_\_\_\_, but that (30) \_\_\_\_\_ ham is not worth the (31) \_\_\_\_\_ I might get on my (32) \_\_\_\_\_."

"(33) \_\_\_\_\_" moaned the princess.

(34) \_\_\_\_\_, the prince loaded a (35) \_\_\_\_\_ and shot a (36) \_\_\_\_\_ in the (37) \_\_\_\_\_ of the pig.

"(38) \_\_\_\_\_ you," said Ollie, and he ate his (39) \_\_\_\_\_ with ham.

Liz did not (40) \_\_\_\_\_ Zeb, and all was (41) \_\_\_\_\_ (42) \_\_\_\_\_.