

ANSWERS

Shading indicates that the puzzle is for partners.

Section 1 Answers

Why Did the Lion Eat the Tightrope Walker?

- | | | | |
|--------|---------|--------|--------|
| E. 18 | N. 15 | A. 4.5 | W. 5 |
| A. 7 | D. 25 | R. 2 | H. 3.8 |
| H. 10 | E. 40 | E. 26 | T. 11 |
| E. 4 | S. 2.5 | L. 91 | M. 999 |
| | | | |
| A. 48 | D. 32 | A. 63 | B. 40 |
| O. 7.5 | E. 21 | B. 5 | C. 7 |
| E. 34 | N. 36.8 | E. 2.5 | W. 144 |
| L. 9 | T. 8 | L. 4 | L. 1 |

SHE WANTED HER MEAL
TO BE WELL BALANCED

1.1

How Can You Avoid Getting a Flat Tire?

- | | | | |
|--------|---------|---------|----------|
| 1. 108 | 9. 48 | 17. 26 | 25. 48 |
| 2. 27 | 10. 144 | 18. 66 | 26. 121 |
| 3. 19 | 11. 72 | 19. 78 | 27. 1007 |
| 4. 32 | 12. 184 | 20. 145 | 28. 5 |
| 5. 25 | 13. 8 | 21. 11 | 29. 92 |
| 6. 11 | 14. 152 | 22. 82 | 30. 16 |
| 7. 13 | 15. 22 | 23. 402 | 31. 4 |
| 8. 44 | 16. 170 | 24. 484 | 32. 77 |

LOOK OUT FOR THE
FORK IN THE ROAD

1.3

Why Don't Robots Ever Panic?

- | | | |
|------------|------------|------------|
| 1. T (cp) | 2. T (cp) | 3. F |
| 4. F | 5. T (ap) | 6. T (ap) |
| 7. F | 8. F | 9. F |
| 10. T (cp) | 11. T (ap) | 12. T (cp) |
| 13. T (cp) | 14. T (ap) | 15. T (cp) |
| 16. T (cp) | 17. T (cp) | 18. F |
| 19. T (ap) | 20. T (ap) | 21. F |

THEY HAVE NERVES OF STEEL

1.4

What Did Zero Say to Eight?

- | | |
|-------------|-------------------------|
| 1a. x^5 | 5a. 400 |
| b. x^9 | b. 2197 |
| c. $5x^3$ | c. 1568 |
| d. $(5x)^3$ | d. 1 |
| | |
| 2a. n^2 | 6a. 117 |
| b. n^3 | b. $\frac{9}{16}$ |
| c. $7n^4$ | c. 17 |
| d. $(7n)^4$ | d. $\frac{1}{8}$ |
| | |
| 3a. 121 | 7a. 25 cm^2 |
| b. 128 | b. 12.3 ft^2 |
| c. 81 | c. 84.6 cm^2 |
| d. 100,000 | d. 196 ft^2 |
| | |
| 4a. 64 | 8a. 64 in.^3 |
| b. 225 | b. 15.6 m^3 |
| c. 625 | c. 1728 in.^3 |
| d. 512 | d. 1000 m^3 |

NICE BELT

1.2

What Happens When You Step on the Brakes?

- | | |
|-------------------|-------------------|
| 1. commutative + | 14. commutative × |
| 2. commutative × | 15. FALSE |
| 3. associative × | 16. commutative + |
| 4. associative + | 17. FALSE |
| 5. identity × | 18. associative + |
| 6. commutative + | 19. commutative × |
| 7. associative + | 20. associative × |
| 8. identity + | 21. identity + |
| 9. associative × | 22. identity × |
| 10. commutative × | 23. FALSE |
| 11. commutative + | 24. associative + |
| 12. FALSE | 25. FALSE |
| 13. associative × | 26. identity × |

YOUR LIFE IS IN YOUR FOOT'S HANDS

1.5

IT HAS BEEN SAID THAT THERE ARE THREE KINDS OF MATH TEACHERS:
THOSE WHO CAN COUNT AND THOSE WHO CAN'T.

And math teachers were discouraged recently when it was reported that
five out of every four people don't understand fractions.

extra for teachers