

Answers

1.1 Puzzle Time

SPIDER THAT ASKED TO TEST DRIVE A CAR
BECAUSE HE WANTED TO TAKE IT FOR A SPIN

1.2 Practice B

1. 12^2 2. 4^3 3. 5^4 4. 25^3
5. 30^5 6. 17^3 7. 169 8. 32
9. 512 10. 15,625 11. 28,561 12. 6561
13. $7^5 = 7 \times 7 \times 7 \times 7 \times 7 = 16,807$
14. \$30,000 15. yes 16. yes
17. no 18. d^4 19. $5z^3$
20. p^6 21. 64 and 81

22. a. 36 ft^2

b. Divide a row of 4 tiles among the other 2 rows of 4 tiles, creating 6 rows of 6 tiles.

c. 13 tiles; yes d. Move 1 tile; remove 11 tiles.

1.3 Practice A

1. 4 2. 4 3. 3
4. 3 5. 32 6. 39
7. 10 8. 7 9. 1
10. $56 \div 4 \times 2 = 14 \times 2 = 28$
11. 12 problems 12. 3
13. 44 14. 16 15. 21
16. 3 17. 52 18. 145 cents
19. Sample answer: $14 \div 7 + 5 - 2 \times 3$
20. \$37; $3 \times 9 + 2 \times 4 + 4 \times 3 - 10$
21. \$25.50; $17 \times 6 \div 4$

1.3 Practice B

1. 160 2. 5 3. 165
4. 3 5. -14 6. 19
7. a. 80 b. 80
yes; Division and multiplication are evaluated from left to right.
8. 66 9. 21 10. 115 11. 24
12. 32 people 13. 12 14. 2
15. \$4.50; $\frac{4 \times 5 + 2 \times 2 + 8 \times 1.5}{8}$
16. 60 servings
17. a. $17 - 2 \times 3 - 8 = 3$
b. $33 \div 3 - 2 \times 5 = 1$