

Solve and Write Multiplication Equations

Guided Practice



Solve each equation. Check your solution. (Examples 1, 2, and 4)

1. $2a = 6$

2. $20 = 4c$

3. $9.4g = 28.2$

Show your work.

4. The length of an object in feet is equal to 3 times its length in yards. The length of a waterslide is 48 feet. Write and solve a multiplication equation to find the length of the waterslide in yards. (Example 3)

5. The total time to burn a CD is 18 minutes. Last weekend, Demitri spent 90 minutes burning CDs. Write and solve a multiplication equation to find the number of CDs Demitri burned last weekend. Explain how you can check your solution. (Example 3)

Independent Practice

Solve each equation. Check your solution. (Examples 1, 2, and 4)

1. $4g = 24$

2. $5d = 30$

3. $36 = 6e$

Show your work.

4. $1.5x = 3$

5. $2.5y = 5$

6. $8.1 = 0.9a$


7. A jewelry store is selling a set of 4 pairs of gemstone earrings for \$58, including tax. Neva and three of her friends want to buy the set so each could have one pair of earrings. Write and solve a multiplication equation to find how much each person should pay. (Example 3)

Solve each equation. Check your solution.

8. $39 = 1\frac{3}{10}b$

9. $\frac{1}{2}e = \frac{1}{4}$

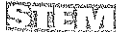
10. $\frac{2}{5}g = \frac{3}{5}$

 Use Math Tools Use the table that shows football data.

a. George Blanda played in the NFL for 26 years. Write and solve an equation to find how many points he averaged each year.

b. Norm Johnson played in the NFL for 16 years. Write and solve an equation to find how many points he averaged each year.

Top NFL Kickers	
Player	Career Points
Gary Anderson	2,434
Morten Andersen	2,437
George Blanda	2,002
John Carney	1,749
Norm Johnson	1,736

12.  An average person's heart beats about 103,680 times a day. Write and solve an equation to find about how many times the average person's heart beats in one minute.

Standardized Test Practice

17. The Walkers traveled 182 miles in $3\frac{1}{2}$ hours. The equation $3.5m = 182$ can be used to find their mean rate of travel. What is the value of m ?

(A) 60

(B) 52

(C) 50

(D) 48

21. $3f = 12$

22. $21 = 3g$

23. $6x = 12$

24. $5.9q = 23.6$

25. $2.55d = 17.85$

26. $6.5a = 32.5$

27. The Raimonde family drove 1,764 miles across the United States on their vacation. If it took a total of 28 hours, write and solve a multiplication equation to find their average speed in miles per hour.