

Section 3.3 – Operations with Multiplication and Division

Problem Set 1

Solve the following equations.

1. $2x = 18$

2. $3x = 81$

3. $8x = -24$

4. $-4x = 12$

5. $-5x = 17$

6. $-y = 7$

8. $7b = 98$

9. $1.4b = 28$

10. $4.1e = 12.3$

10. $\frac{x}{8} = -2$

11. $\frac{x}{-3} = 3$

12. $\frac{x}{18} = \frac{1}{6}$

13. $\frac{x}{5} = \frac{1}{10}$

14. $\frac{b}{6} = -12$

15. $\frac{-7x}{3} = 77$

16. $\frac{4}{5}x = 80$

17. $\frac{1}{3}x = 22$

18. $\frac{4y}{9} = -16$

19. $32x = \frac{1}{3}$

20. $7x = -\frac{7}{12}$

21. $-3x = -\frac{120}{7}$

Write an algebraic equation for the following statements and solve it.

22. five times a number equals one hundred

23. one half of a number equals seven

24. the quotient of a number and eight equals twelve

25. three times a number equals negative one third