

Prealgebra by Elayn Martin-Gay, 6th Edition

Final Practice Test

Simplify each expression

1. $-27 \div (-3)$

2. $-6 - (-21)$

3. $16 - |-22|$

4. $-6 + 12 \div (-4)$

5. $-8 + (-33) - 13 + 6$

6. Aaron Hawn has \$133 in his checking account. He writes a check for \$69, withdraws \$30 from an ATM, and then deposits \$55. Represent the new balance for his account by an integer.

7. Translate the following phrases into mathematical expressions. Use x to represent "a number."

(a) The product of a number and 19

(b) Twice a number subtracted from 25

Solve.

Write the mixed number as an improper fraction

8. $\frac{n}{-6} = 5$

9. $11x = 10x - 4$

10. $8\frac{3}{4}$

Perform each indicated operation and write the answers in simplest form.

11. $\frac{5}{5} \div \frac{4}{5}$

12. $-\frac{3}{4} - \frac{13}{20}$

13. $-\frac{3}{10y} - \frac{2}{10y}$

14. $3\frac{5}{6}$
 $+ 8\frac{2}{5}$

15. 25
 $- 2\frac{4}{11}$

16. $4\frac{1}{6} \cdot 2\frac{3}{8}$

17. $\frac{3}{4} \div \frac{4}{5} \cdot \frac{5}{6}$

Solve.

18. $\frac{2}{3}x = \frac{2}{6}$

19. $\frac{x}{3} + \frac{x}{6} = \frac{6}{12}$

Perform each indicated operation. Round the result to the nearest thousandth if necessary.

20. $3.738 + 5.23 + 11.568$

21. $5.63 - 21.25$

22. 12.8×2.81

23. $-.00632 \div (-.21)$

Round each decimal to the indicated place value.

24. 35.7963 , nearest tenth

Insert $<$, $>$, or $=$ between each pair of numbers to form a true statement.

25. $\frac{4}{9} \square 0.445$

Write each decimal as a fraction or a mixed number.

26. -23.25

Write each fraction as a decimal. If necessary, round to the nearest thousandth.

27. $\frac{18}{19}$

Solve.

28. $0.4x + 1.4 = 0.6$

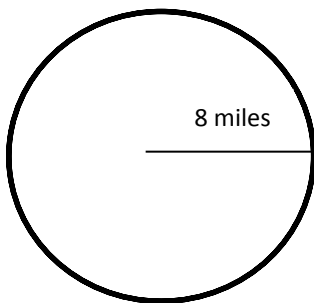
Find the mean, median, and mode of each list of numbers.

29. $32, 49, 43, 42, 26$

30. Find the exact circumference of the circle. Then use the approximation 3.14 for π and approximate the circumference

Write each ratio or rate as a fraction in simplest form.

31. 6500 trees to 3500 trees



Solve the proportion for the given variable.

32. $\frac{n}{4} = \frac{20}{10}$

Write the decimal as a percent.

33. 0.048

Write the percent as a fraction or a mixed number in simplest form.

34. 0.4%

Write the fraction as a percent.

35. $1\frac{1}{4}$

Solve.

36. What number is 43% of 90?

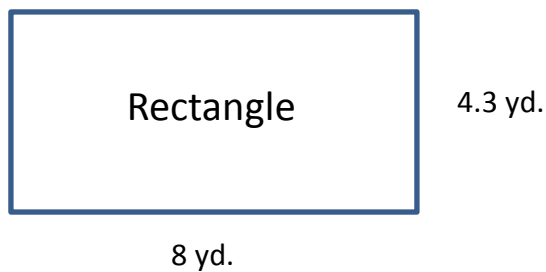
37. 567 is what percent of 756?

Solve. If necessary, round to the nearest tenth, dollar amounts to the nearest cent, and all other numbers to the nearest whole.

38. If the local sales tax is 1.56%, find the total amount charged for a stereo system priced at \$456.

39. Find the supplement of a 134° angle.

40. Find the perimeter and area of the figure below.



1.	9	20.	20.54	39.	46°
2.	15	21.	-15.62	40.	<i>Perimeter : 24.6 yd Area: 34.4 yd²</i>
3.	-6	22.	35.97		
4.	-9	23.	.03		
5.	-48	24.	35.8		
6.	89	25.	<		
7.	<i>a. $x \cdot 19$ or $19x$ b. $25 - 2x$</i>	26.	$-23\frac{1}{4}$		
8.	$n = -30$	27.	.95		
9.	$x = -4$	28.	-2		
10.	$\frac{35}{4}$	29.	<i>Mode = None Median = 42 Mean = 38.4</i>		
11.	$\frac{5}{4}$	30.	<i>16π miles 50.24 miles</i>		
12.	$-\frac{7}{5}$	31.	$\frac{13}{7}$		
13.	$-\frac{1}{2y}$	32.	$n = 8$		
14.	$12\frac{7}{30}$	33.	4.8%		
15.	$22\frac{7}{11}$	34.	$\frac{1}{250}$		
16.	$9\frac{43}{48}$	35.	125%		
17.	$\frac{25}{32}$	36.	38.7		
18.	$x = \frac{1}{2}$	37.	75%		
19.	$x = 1$	38.	\$463.11		