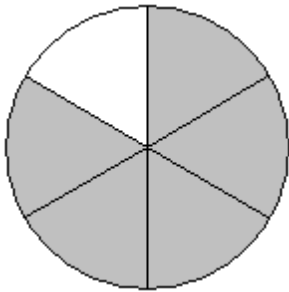


Write the fraction that is indicated by the shaded region.

1)



Reduce the fraction, if possible.

2) $\frac{14}{16}$

3) $\frac{30xy}{70x}$

4) $\frac{-21}{28}$

Find the product, and write in lowest terms, if necessary.

5) $\frac{12}{5} \cdot \frac{2}{9}$

6) $5 \cdot \frac{39}{10}$

7) $4 \cdot \left(-\frac{4}{9}\right)$

Write the fraction as a terminating or repeating decimal.

8) $\frac{7}{8}$

Write the decimal as a fraction, reduced to lowest terms.

9) 0.52

Write the percent as a decimal.

10) 60%

11) 2%

Find the quotient, and write in lowest terms, if necessary.

$$12) \frac{19}{8} \div \frac{12m}{8}$$

$$13) \frac{6x}{11} \div \frac{9x}{13}$$

$$14) -\frac{4}{5} \div \left(-\frac{1}{3}\right)$$

Find the sum or difference, and write in lowest terms, if necessary.

$$15) \frac{7}{8k} - \frac{4}{8k}$$

$$16) -\frac{1}{3} + \left(-\frac{8}{9}\right)$$

$$17) \frac{2}{7} - \left(-\frac{3}{28}\right)$$

$$18) -\frac{2}{8} + \frac{6}{9}$$

$$19) -\frac{2}{3} - \frac{1}{2}$$

$$20) \frac{3}{2} - \frac{1}{3} - \frac{5}{6}$$

Evaluate the exponential expression.

$$21) \left(-\frac{1}{6}\right)^2$$

Evaluate the expression.

$$22) \frac{1}{2} \cdot \left[\frac{3}{2} \div \left(\frac{5}{8} - \frac{1}{8} \right) - 1 \right]$$

$$23) \frac{8(8)+3}{1-3(9)}$$

$$24) \frac{(-8) \cdot (8-7) + (-8) \cdot 4}{(-8) \cdot (5-2)}$$

$$25) \frac{\frac{1}{5} \cdot 25 - 10}{4 + \frac{1}{4} \cdot 16}$$

Solve the equation . Be sure to check your solution.

$$26) x + \frac{1}{11} = \frac{10}{11}$$

$$27) -\frac{1}{5} = x - \frac{13}{15}$$

$$28) -23.2 = -2.9c$$

$$29) \frac{1}{5} = 2x$$

$$30) 28 = -\frac{4}{5}x$$

$$31) \frac{n}{5} = 10$$

$$32) x + 8.1 = 12.1$$

$$33) y - 18.5 = -3.1$$

Solve the problem.

34) Biologists banded three out of every twenty wild ducks. What percent were banded?

35) 165 students attended an assembly at Piper School. The student enrollment at the school is 660. What percentage of the students attended the assembly?

Find the unknown in each percent question.

36) What is 10% of 700?

37) 17 is 6% of what number?

38) What percent of 18 is 5.4?

Solve. If needed, round money amounts to two decimal places and all other amounts to one decimal place.

39) Jeans are on sale at the local department store for 15% off. If the jeans originally cost \$41, find the sale price.

40) Because of budget cutbacks, MaryAnn was required to take a 6% pay cut. If she earned \$27,000 before the pay cut, find her salary after the pay cut.

- 41) Ming got a 19% raise in her salary from last year. This year she is earning \$135,660. How much did she make last year?

Solve.

- 42) A sales representative is paid a commission rate of 2.4%. Find her commission if she sold \$45,140 worth of goods last month.

Find the square root.

43) $\sqrt{9}$

44) $\sqrt{100}$

For the proportion, find the unknown number n.

45) $\frac{n}{7} = \frac{20}{28}$

46) $\frac{15}{60} = \frac{3}{n}$

Solve.

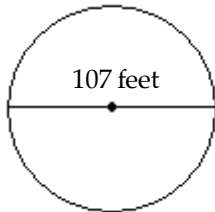
- 47) Find the simple interest when: Principal = \$210, Rate = 8%, Time = 2 years
- 48) Corrin borrows \$3800 and agrees to pay it back in 8 years. If the simple interest rate is 11%, find the total amount she pays back.

Solve. If necessary, round answers to the nearest hundredth.

- 49) The following test scores were recorded for a student: 92, 87, 85, 81, 87, 73, 83. Find the mean, median, and mode.

Find the circumference of the circle.

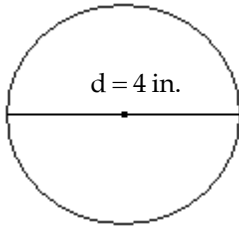
50)



Approximate the circumference. Use $\pi \approx 3.14$.

Find the area of the circle. Be sure to give the proper units on the answer.

51)



Use 3.14 for π . Round to the nearest hundredth, if necessary.

Answer Key

Testname: N48 EXAM REVIEW CH4 -6 FALL16

1) $\frac{5}{6}$

2) $\frac{7}{8}$

3) $\frac{3}{7}$

4) $-\frac{3}{4}$

5) $\frac{8}{15}$

6) $\frac{39}{2}$

7) $-\frac{16}{9}$

8) 0.875

9) $\frac{13}{25}$

10) 0.6

11) 0.02

12) 19

13) $\frac{26}{33}$

14) $\frac{12}{5}$

15) $\frac{3}{8}$

16) $-\frac{11}{9}$

17) $\frac{11}{28}$

18) $\frac{5}{12}$

19) $-\frac{7}{6}$

20) $\frac{1}{3}$

21) $\frac{1}{36}$

22) 1

23) $-\frac{67}{26}$

24) $\frac{5}{3}$

25) $-\frac{5}{8}$

26) $\left\{\frac{9}{11}\right\}$

27) $\left\{\frac{2}{3}\right\}$

28) {8}

29) $\left\{\frac{1}{10}\right\}$

30) {-35}

31) {50}

32) {4}

33) {15.4}

34) 15%

35) 25%

36) 70

37) 283.33

38) 30%

39) \$34.85

40) \$25,380

41) \$114,000

42) \$1083.36

43) 3

44) 10

45) 5

46) 12

47) \$33.60

48) \$7144

49) mean: 84 median: 85 mode: 87

50) 335.98 units

51) 12.56 sq in.