

Exam

Name _____

MULTIPLE CHOICE. Choose the one alternative that best completes the statement or answers the question.

Multiply. Write the product in lowest terms.

1) $\left(\frac{8}{5}\right)\left(\frac{5}{4}\right)$

A) 3

B) 2

C) $-\frac{2}{5}$

D) $\frac{25}{32}$

1) _____

2) $\left(\frac{7}{13}\right)\left(-\frac{14}{15}\right)$

A) $-\frac{26}{15}$

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

C) $-\frac{98}{195}$

D) $-\frac{7}{195}$

2) _____

Divide. Write the quotient in lowest terms.

3) $\frac{14}{19} \div \frac{17}{13}$

A) $\frac{14}{323}$

B) $\frac{31}{32}$

C) $\frac{182}{323}$

D) $\frac{238}{247}$

3) _____

4) $\left(\frac{1}{4}\right) \div \left(\frac{3}{16}\right)$

A) $\frac{1}{12}$

B) $\frac{3}{14}$

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

D) $\frac{3}{64}$

4) _____

Find the sum or difference. Write the answer in lowest terms.

5) $\frac{5}{3} - \frac{5}{162}$

A) $\frac{5}{972}$

B) $\frac{5}{168}$

C) $\frac{265}{162}$

D) $\frac{265}{28}$

5) _____

6) $\frac{1}{3} - \left(-\frac{5}{18}\right)$

A) 11

B) $\frac{11}{18}$

C) $\frac{18}{11}$

D) $\frac{7}{108}$

6) _____

7) $\frac{16}{14x} - \frac{7}{14x}$

A) $\frac{9}{28x}$

B) 9

C) $\frac{9}{14x}$

D) $\frac{14x}{9}$

7) _____

8) $\frac{15}{9x^2} - \frac{11}{9x^2}$

8) _____

A) $\frac{9}{4x^2}$

B) 4

C) $\frac{4}{18x^4}$

D) $\frac{4}{9x^2}$

First, round the mixed numbers to the nearest whole number and estimate the answer. Then find the exact answer and write it in simplest form.

9) $2\frac{1}{4} \cdot 21\frac{1}{3}$

9) _____

A) $42\frac{1}{12}$

B) 49

C) 48

D) 44

10) $2 \cdot 7\frac{7}{12}$

10) _____

A) $14\frac{7}{12}$

B) $15\frac{3}{6}$

C) $9\frac{1}{6}$

D) $15\frac{1}{6}$

11) $17\frac{2}{3} + 9\frac{1}{8}$

11) _____

A) $26\frac{19}{24}$

B) $25\frac{19}{24}$

C) $27\frac{19}{24}$

D) $17\frac{19}{24}$

Simplify.

12) $\frac{2}{7} \div \frac{4}{7} - \frac{3}{7}$

12) _____

A) $\frac{11}{21}$

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

C) $\frac{1}{14}$

D) $\frac{2}{21}$

13) $\frac{1}{3} \div \frac{2}{7} \cdot \frac{7}{10}$

13) _____

A) $4\frac{2}{7}$

B) $1\frac{11}{49}$

C) $\frac{1}{15}$

D) $\frac{49}{60}$

14) $\left(\frac{1}{2}\right)^2 \left(\frac{3}{5} - \frac{2}{5}\right)$

14) _____

A) $-\frac{1}{10}$

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

C) $-\frac{1}{4}$

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

Solve the equation.

15) $-\frac{1}{2}x = 23$

15) _____

A) -46

B) -25

C) -23

D) -44

16) $-\frac{4}{21}y = -\frac{8}{15}$

16) _____

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

B) $\frac{7}{10}$

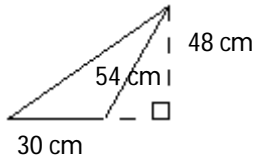
C) $\frac{8}{35}$

D) $\frac{35}{8}$

Find the area.

17)

17) _____



A) 1152 yd^2

B) 1440 yd^2

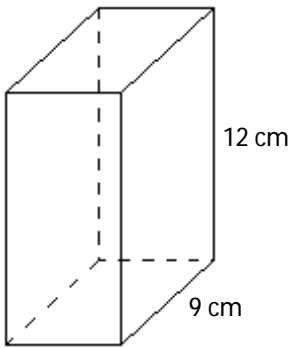
C) 1296 yd^2

D) 720 yd^2

Find the volume.

18)

18) _____



A) 324 cm^2

B) 24 cm^3

C) 324 cm^3

D) 111 cm^3

You are on a shopping trip. The store will round the amount you pay for each item to the nearest cent. Find the amount you will pay in each instance.

19) Compact disks are 3 for \$15.55, so one CD is \$5.1833. You pay:

19) _____

A) \$5.183

B) \$5.28

C) \$5.18

D) \$5.17

In order to prepare her budget, Sue gathers receipts for all major expenses she has had over the last month. Round the figure to the nearest dollar.

20) Tuition payment, \$7516.92

20) _____

A) \$7516.9

B) \$7517

C) \$7516.92

D) \$7516

Perform the indicated operation.

21) $2.097 + (-2.164)$

21) _____

A) -4.261

B) 4.538

C) -0.067

D) -4.161

22) $-5.594 + (-7.326)$

22) _____

A) -12.92

B) -1.732

C) 40.982

D) 12.92

Multiply.

23) $(-0.1)(4.77)$

23) _____

A) -0.477

B) 0.477

C) 4.87

D) 4.67

24) $(-3.6)(-12.1)$

A) -8.5

B) -15.7

C) 43.56

D) 15.7

24) _____

Divide.

25) $-16.1 \div 23$

A) 7

B) -1.7

C) -7

D) -0.7

25) _____

26) $\frac{2.46}{3}$

A) 8.2

B) 1.82

C) 0.82

D) 18.2

26) _____

Write the fraction or mixed number as a decimal. Round to the nearest thousandth if necessary.

27) $\frac{13}{40}$

A) 3.077

B) 0.325

C) 0.033

D) 3.25

27) _____

Write the decimal as a fraction or mixed number in lowest terms.

28) 0.336

A) $\frac{42}{125}$ B) $\frac{42}{12}$ C) $\frac{1}{112,896}$ D) $\frac{1}{336}$

28) _____

Find the mean for the list of numbers.

29) Scores on a math test: 79%, 44%, 79%, 94%, 44%

Round answer to the nearest whole number if necessary.

A) 44%

B) 94%

C) 67%

D) 68%

29) _____

Solve the problem.

30) The batting percentages of some of the players on the company softball team are .246, .292, .206, .287, .247, .334, and .253. What is the mean of the batting percentages of these players? Round to the nearest thousandth.

A) .280

B) .266

C) .242

D) .311

30) _____

Find the square root. When necessary, round to nearest thousandth.

31) $\sqrt{35}$

A) 5.915

B) 5.916

C) 6.916

D) 5.926

31) _____

Find the unknown length in the right triangle. If necessary, round to the nearest tenth.

32)



A) 24 yd

B) 18 yd

C) 20 yd

D) 25 yd

32) _____

Solve the equation and check your solution.

33) $6.7 = x - 7.1$

A) -0.4

B) -13.8

C) 13.8

D) 47.57

33) _____

34) $-9.6y = 86.4$

A) -9

B) -77.4

C) -1.07

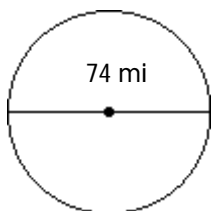
D) -72

34) _____

Find the radius or diameter as requested.

35) Find the radius.

35) _____



A) 4298.66 mi

B) 18.5 mi

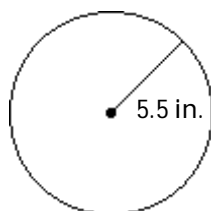
C) 37 mi

D) 116.18 mi

Find the circumference and area of the circle. Use 3.14 for π . Round your results to the nearest tenth.

36)

36) _____



A) $C \approx 34.5$ in., $A \approx 34.5$ in.²

B) $C \approx 17.3$ in., $A \approx 69.1$ in.²

C) $C \approx 17.3$ in., $A \approx 379.9$ in.²

D) $C \approx 34.5$ in., $A \approx 95$ in.²

Answer Key

Testname: UNTITLED1

- 1) B
- 2) C
- 3) C
- 4) C
- 5) C
- 6) B
- 7) C
- 8) D
- 9) C
- 10) D
- 11) A
- 12) C
- 13) D
- 14) D
- 15) A
- 16) A
- 17) D
- 18) C
- 19) C
- 20) B
- 21) C
- 22) A
- 23) A
- 24) C
- 25) D
- 26) C
- 27) B
- 28) A
- 29) D
- 30) B
- 31) B
- 32) C
- 33) C
- 34) A
- 35) C
- 36) D