

Math 0306
Review (Ch 5, 6 & 7)

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

Write in words, as on a check.

1) \$385.41

1) _____

A) Three hundred and $\frac{8541}{100}$ dollars

B) Three hundred eighty-five and $\frac{41}{100}$ dollars

C) $\frac{38541}{1000}$ dollars

D) Three thousand eighty-five and $\frac{41}{100}$ dollars

Write decimal notation.

2) $-\frac{76}{10}$

2) _____

A) -0.076

B) -7.6

C) -760

D) -0.76

Which number is larger?

3) -0.98, -0.95

3) _____

A) -0.95

B) -0.98

Solve the problem.

4) Round 1.861 to the nearest hundredth.

4) _____

A) 1.87

B) 1.9

C) 1.85

D) 1.86

Add.

5) $64.9 + 7 + 86.58 + 28.468$

5) _____

A) 187.948

B) 186.958

C) 186.948

D) 187.048

Subtract.

6) $74 - 2.68$

6) _____

A) 76.68

B) 71.32

C) 71.42

D) 70.82

Add or subtract, as indicated.

7) $0.46 - (-5.483)$

7) _____

A) 2.522

B) 6.043

C) 5.023

D) 5.943

Combine like terms.

8) $9.2a + 9.4b - 2.5a - 7.4b$

8) _____

A) $11.7a + 16.8b$

B) $6.7a + 16.8b$

C) $-6.7a + 2.0b$

D) $6.7a + 2.0b$

Multiply.

9)

$$\begin{array}{r} 0.305 \\ \times 7.8 \\ \hline \end{array}$$

A) 2.379

B) 8.105

C) 8

D) 2

9) _____

10) $(-1.30)(-7.5)$

A) -8.8

B) -6.2

C) 9.75

D) 8.8

10) _____

Divide.

11) $33.92 \div 5.3$

A) 0.64

B) 6.4

C) 64

D) 7.4

11) _____

Simplify.

12) $6.3 \times 4.7 + 0.9 \div 7.2$

A) 29.735

B) 4.9

C) 3.15

D) 4.2375

12) _____

Find decimal notation.

13) $\frac{8}{20}$

A) 0.3

B) 0.45

C) 0.5

D) 0.4

13) _____

14) $\frac{11}{15}$

A) $0.7\bar{1}$

B) $0.6\bar{3}$

C) $0.7\bar{6}$

D) $0.7\bar{3}$

14) _____

Calculate and write the result as a decimal.

15) $\frac{5}{8}(18.7)$

A) 11.6875

B) 11.5753

C) 11.6688

D) 11.7062

15) _____

Estimate by rounding as directed.

16) $0.06 + 2.68 + 0.23$; nearest tenth

A) 3.2

B) 3.0

C) 3.3

D) 2.8

16) _____

Solve.

17) $6.1x - 7.2 = 7.44$

A) 0.24

B) 0

C) 2.4

D) 14.64

17) _____

18) BT&T charges \$0.43 for the first minute and \$0.19 for each additional minute for a long-distance call. How much will a 5 minute long-distance call cost?

A) \$0.95

B) \$1.38

C) \$1.19

D) \$2.15

18) _____

19) $\frac{3.2}{5} = \frac{x}{7}$

A) 0.09

B) 1.17

C) 2.0

D) 4.48

19) _____

Find decimal notation.

- 20) 29% 20) _____
A) 0.29 B) 2.9 C) 0.029 D) 0.18

Find percent notation.

- 21) 0.011 21) _____
A) 1.1% B) 11% C) 0.11% D) 0.0011%

- 22) $\frac{41}{50}$ 22) _____
A) 82% B) 1000% C) 8.2% D) 41%

Solve the problem. Round your answer to two decimal places if necessary.

- 23) What is 10% of 700? 23) _____
A) 70 B) 0.7 C) 700 D) 7

Solve the problem. Round your answer to the nearest tenth of a percent, if necessary.

- 24) 290 is what percent of 1720? 24) _____
A) 0.2% B) 16.9% C) 593.1% D) 0.0%

Solve.

- 25) On a biology test, a student got 25 questions correct but did not pass. On a second attempt, the student got 31 questions correct. What was the percent of increase? 25) _____
A) 6% B) 76% C) 24% D) 19.4%

- 26) The price of a printer was reduced from \$400 to \$280. What was the percent of decrease? 26) _____
A) 42.9% B) 70% C) 30% D) 35%

Solve the problem.

- 27) A telephone costs \$411. If the sales tax rate is 9%, how much tax is charged and what is the total price? Round your answers to the nearest cent. 27) _____
A) \$32.88, \$443.88 B) \$369.90, \$780.90
C) \$36.99, \$447.99 D) \$41.10, \$452.10

- 28) The price of a necklace is \$13.99. If the salesperson's rate of commission is 12%, how much commission is earned on the sale of the necklace? Round to the nearest cent. 28) _____
A) \$16.89 B) \$1.69 C) \$1.68 D) \$16.79

- 29) Bathing suits are often on sale in July. The regular price of one suit is \$26. With a 15% discount, what is the sale price of the suit? 29) _____
A) \$23.10 B) \$3.90 C) \$22.10 D) \$21.10

Find the simple interest. Round your answer to the nearest cent.

- 30) Principal = \$400 30) _____
Rate = 3%
Time in years = 4
A) \$300.00 B) \$48.00 C) \$33.33 D) \$4.80

Find the average for the set of numbers.

31) 51, 57, 41, 53, 38

A) 40

B) 51

C) 48

D) None

31) _____

32) 63, 73, 49, 69, 46

A) 50

B) 63

C) None

D) 60

32) _____

Find the median for the set of numbers.

33) 9, 8, 29, 13, 25, 46, 39, 31

A) 25

B) 25.5

C) 29

D) 27

33) _____

Find any modes that exist.

34) 20, 24, 46, 24, 49, 24, 49

A) 33.7

B) 46

C) 24

D) 49

34) _____

Use the pictograph to answer the question.

35) This pictograph shows projected sales of compact disks (CDs) for a popular rock band for seven consecutive years.

35) _____

Year	Projected CD Sales
2013	⊙⊙
2012	⊙⊙⊙⊙⊙⊙
2011	⊙⊙⊙⊙⊙⊙⊙⊙
2010	⊙⊙⊙⊙⊙⊙⊙⊙⊙
2009	⊙⊙⊙⊙⊙
2008	⊙⊙⊙⊙⊙⊙⊙
2007	⊙⊙⊙

⊙ = 1000 CDs

In which year will the greatest number of CDs be sold?

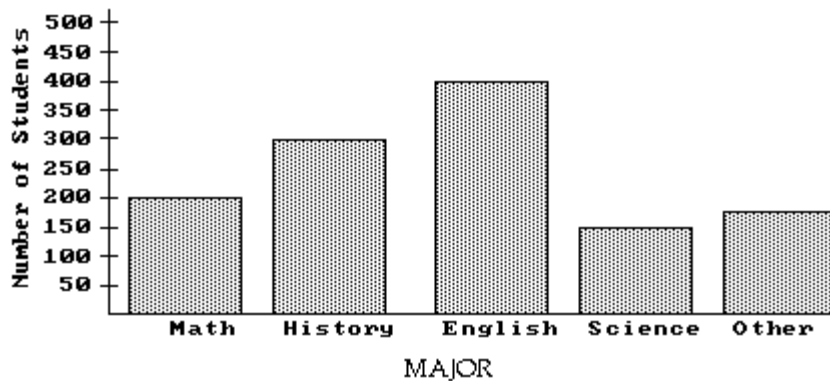
A) 2013

B) 2010

C) 2008

D) Not enough information is given.

The bar graph below shows the number of students by major in the College of Arts and Sciences. Answer the question.



36) How many students are majoring in History?

A) 350

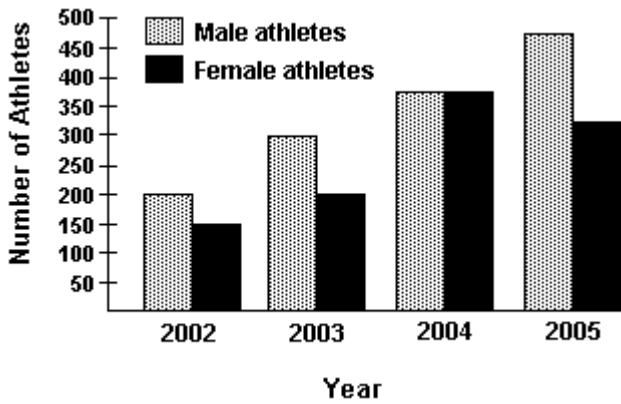
B) 400

C) 250

D) 300

36) _____

Refer to the double-bar graph below which shows the number of male and female athletes at a university over a four-year period. Solve the problem.



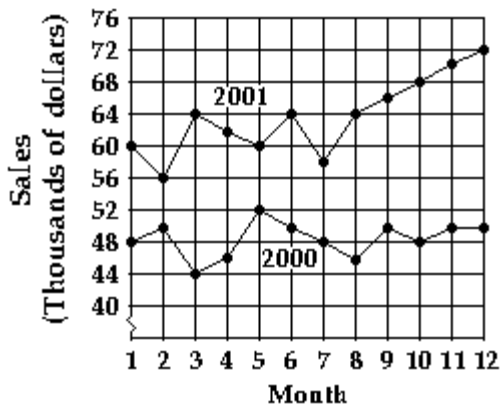
37) Find the increase in the number of female athletes from 2003 to 2004.

- A) 150 B) 375 C) 125 D) 175

37) _____

Use the graph to answer the question.

Big "D" Sales (2000 - 2001)



38) Which month in 2000 had the lowest sales?

- A) Month 3 B) Month 8 C) Month 6 D) Month 2

38) _____

39) What was the increase in sales between month 5 and month 6 of 2001?

- A) \$4 B) \$4000 C) \$800 D) \$8000

39) _____

The following table contains information about moons orbiting a planet named Geo I. Use the table to solve the problem.

40)

40) _____

Moon	Average Distance from Geo I (km)	Diameter (km)	Time of Revolution (in Earth time, years)
Luna 1	1000	411	0.25
Luna 2	1300	2187	0.77
Luna 3	50,000	318	1.36
Luna 4	72,000	729	24.35
Luna 5	165,000	1140	62.70

Find the average distance from Geo I to its moon Luna 1.

A) 1300 km

B) 50,000.00 km

C) 411 km

D) 1000 km

Answer Key

Testname: CH 5 , 6 & 7 REVIEW

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