

Name _____
 Spring 2015

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

Write the percent as a decimal.

- 1) 8.4% 1) _____
 A) 8.4 B) 0.084 C) 0.84 D) 84.0

Write the decimal as a percent.

- 2) 0.097 2) _____
 A) 0.97% B) 97% C) 9.7% D) 0.097%

Write the fraction or mixed number as a percent.

- 3) $\frac{9}{100}$ 3) _____
 A) 0.09% B) 9% C) 0.9% D) 90%

Translate the question into an equation. Do not solve.

- 4) What percent of 11 is 64? 4) _____
 A) $x = 11 \cdot 64$ B) $x \cdot 11 = 64$ C) $11\% \cdot x = 64$ D) $11\% = 64 \cdot x$

Translate to an equation and solve.

- 5) 40% of what number is 92? 5) _____
 A) 230 B) 36.8 C) 23 D) 2300

Solve. Round your answer to the nearest whole.

- 6) Patricia got 24 out of the 44 questions right on last Monday's test. What percent of the test did she do correctly? 6) _____
 A) 183% B) 218% C) 55% D) 5%

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

- 7) 24% of the teachers in a school are male. If there are 850 teachers altogether, how many teachers are male? 7) _____
 A) 3542 teachers B) 646 teachers C) 3 teachers D) 204 teachers

- 8) The Gray family paid 17% of the purchase price of a \$265,000 home as a down payment. Determine the amount of the down payment. 8) _____
 A) \$15,588 B) \$451 C) \$4505 D) \$45,050

Solve.

9) A tax of \$1507 is added to a bulk order's price of \$13,700. Find the sales tax rate. 9) _____

- A) 11% B) 9.1% C) 0.9% D) 1.1%

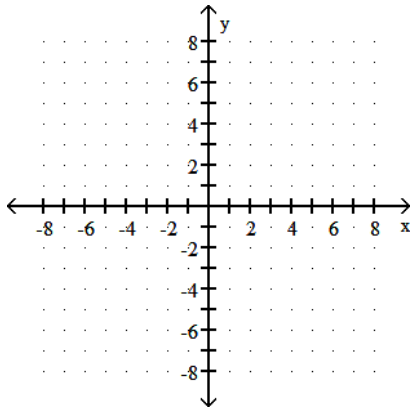
10) Find the simple interest when: Principal = \$1030, Rate = 5.5%, Time = 7 years. 10) _____

- A) \$566.50 B) \$3965.50 C) \$56.65 D) \$396.55

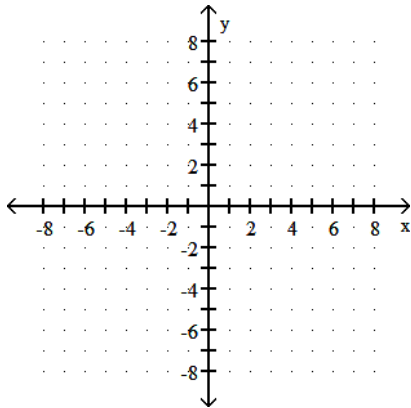
SHORT ANSWER. Write the word or phrase that best completes each statement or answers the question.

Graph the equation.

11) $y = 2x - 6$ 11) _____



12) $y = 4x$ 12) _____



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

Convert the measurement as indicated.

13) 12 yd to feet (Note: 3 ft = 1 yd) 13) _____

- A) 432 ft B) 36 ft C) 108 ft D) 144 ft

Convert as indicated.

14) 77 km to meters (Note: 1000 m = 1 km) 14) _____

- A) 7700 m B) 0.077 m C) 77,000 m D) 0.77 m

Subtract the polynomials.

15) $(6b^2 - b + 7) - (14b^2 + 7b - 11)$

15) _____

A) $-8b^2 - 8b + 18$

B) $8b^2 + 8b - 18$

C) $8b^2 + 6b - 4$

D) $-8b^2 - 6b - 4$

Multiply.

16) $(5p^5) \cdot (8p^9)$

16) _____

A) $40p^{14}$

B) $-40p^{45}$

C) $40p^{45}$

D) $-40p^{14}$

Simplify.

17) $(5x)(2x^3)^5$

17) _____

A) $10x^{16}$

B) $160x^8$

C) $160x^{16}$

D) $160x^{15}$

Multiply.

18) $2x(7x^2 - 4)$

18) _____

A) $9x^3 - 8$

B) $14x^3 - 4$

C) $14x^2 - 9x$

D) $14x^3 - 8x$

19) $(z - 10)(z + 1)$

19) _____

A) $2z^2 + 10$

B) $z^2 + 9z + 10$

C) $z^2 - 9z - 10$

D) $2z - 10$

Write the number in scientific notation.

20) 0.000732

20) _____

A) 7.32×10^{-3}

B) 7.32×10^{-4}

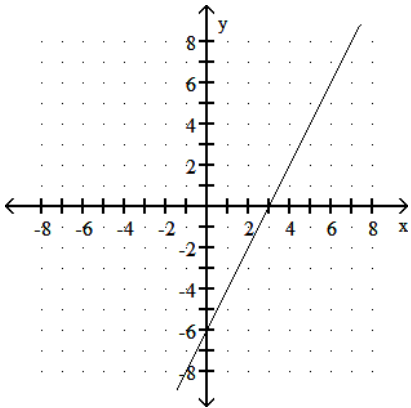
C) 7.32×10^{-5}

D) 7.32×10^4

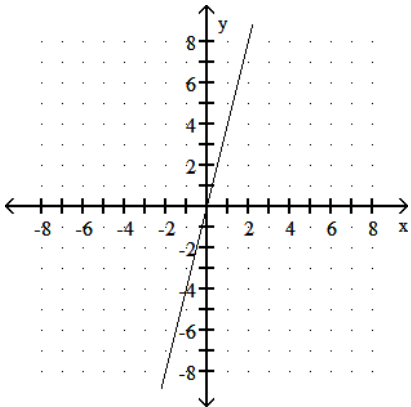
Answer Key

Testname: MAT 090 C MOCK TEST

- 1) B
- 2) C
- 3) B
- 4) B
- 5) A
- 6) C
- 7) D
- 8) D
- 9) A
- 10) D
- 11)



12)



- 13) B
- 14) C
- 15) A
- 16) A
- 17) C
- 18) D
- 19) C
- 20) B