

Chapter 7 Exam v2

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

Provide an appropriate response.

- 1) Suppose $x = 0.\overline{23}$ and $y = 0.\overline{135}$. Find $x + y$ by adding from left to right. How many digits are in the repetend of the sum? 1) _____
- A) $0.\overline{367}$; three digits
B) $0.\overline{367458}$; six digits
C) $0.\overline{365}$; three digits
D) $0.\overline{367458}$; six digits

Solve the problem.

- 2) Students at Maple School earned \$492 selling candles. They want to accumulate \$2000 for a club trip. What percent of their goal has been reached? 2) _____
- A) 4%
B) 40%
C) 0.246%
D) 24.6%

Write the fraction in decimal notation.

- 3) $\frac{25}{12}$ 3) _____
- A) $2.\overline{083}$
B) $2.\overline{089}$
C) $2.\overline{090}$
D) $2.\overline{083}$

Rewrite the following as indicated.

- 4) $\frac{4}{5}$ (Write as a percent.) 4) _____
- A) 800%
B) 8%
C) 160%
D) 80%

Solve the problem.

- 5) Will has \$724.03 in his checking account. If he deposits \$101.18, what is the new balance in his account? 5) _____
- A) \$823.21
B) \$825
C) \$825.21
D) \$622.85
- 6) June has a strip of paper 27.2 inches long. She wants to cut it into strips that are 6.8 inches long. How many 6.8-inch strips will she get? 6) _____
- A) 3 pieces
B) 4 pieces
C) 40 pieces
D) 5 pieces
- 7) If the list price is \$41.85 and if \$7.37 is saved by buying from a discount catalog, what is the discount price for the item? 7) _____
- A) \$34.58
B) \$34.48
C) \$48.22
D) \$49.22

Write the following in words.

- 8) 17.088 8) _____
- A) Seventeen and eighty-eight tenths
B) Seventeen and eighty-eight hundredths
C) Seventeen and eighty-eight thousandths
D) Seventeen and eighty-eight ten-thousandths

Solve the problem.

- 9) The pharmacist mixed 7.53 grams of one drug with 3.618 grams of another drug. What was the weight of the mixture? 9) _____
- A) 11.148 g
B) 7.236 g
C) 15.06 g
D) 12.248 g

- 10) Edwin has a board that is 9.2 feet long. He wants to cut the board into pieces that are 2.3 feet long. How many 2.3-foot pieces will he get from the large board? 10) _____
- A) 4 pieces B) 40 pieces C) 3 pieces D) 5 pieces

- 11) A retail store had monthly sales of \$106,600 and spent 6% of it on freight costs. How much was spent on freight costs? 11) _____
- A) \$177,667 B) \$63,960 C) \$1,776,667 D) \$6396

Write the fraction in decimal notation.

- 12) $\frac{15}{11}$ 12) _____
- A) $1.\overline{38}$ B) $1.3\overline{6}$ C) $1.3\overline{8}$ D) $1.\overline{36}$

Round the number as specified.

- 13) 137.08 to the nearest tenth 13) _____
- A) 137.08 B) 137 C) 137.1 D) 137.0

Rewrite the following as indicated.

- 14) 0.54 (Write as a percent.) 14) _____
- A) 0.054% B) 54% C) 5.4% D) 540%

Solve the problem.

- 15) A grocer sold 49 melons for \$1.52 each. What was the total amount of the sale? 15) _____
- A) \$74.48 B) \$75.58 C) \$74.49 D) \$74.58

- 16) Sales of frozen pizza for a club fund-raiser increased from 500 one year to 545 the next year. What was the percent of increase? 16) _____
- A) 8.3% B) 91% C) 9% D) 91.7%

Rewrite as a terminating decimal.

- 17) $\frac{7}{8}$ 17) _____
- A) 0.765 B) 0.865 C) 0.875 D) 0.965

Solve the problem.

- 18) The normal gasoline mileage of a car is 25 mpg. On a smooth road, its mileage is 12% higher. What is its mileage on a smooth road? Round your answer to the nearest tenth. 18) _____
- A) 50 mpg B) 28.0 mpg C) 3.0 mpg D) 25 mpg

Rewrite as a numeral.

- 19) Two and twenty-two ten-thousandths 19) _____
- A) 0.2022 B) 2.000022 C) 0.0222 D) 2.0022

Write the following in words.

- 20) 14.0045 20) _____
- A) Fourteen and forty-five hundredths
B) Fourteen and forty-five thousandths
C) Fourteen and forty-five hundred-thousandths
D) Fourteen and forty-five ten-thousandths