Final Exam - MA 70 - Spring 2007 - IVC

DO NOT WRITE ON THIS TEST!!!
THIS TEST MAY BE USED BY OTHER STUDENTS!!!

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

Add.

1) 34 + 87

A) 111 B) 122 C) 120 D) 121

Multiply.

2) (680)(1)(40)

A) 27,210 B) 27,196 C) 27,200 D) 27,190

Subtract. Check by adding.

3)

$$\begin{array}{r} 12{,}421 \\ -\ 6756 \\ \hline \end{array}$$

A) 5663 B) 5623 C) 11,665 D) 5665

Divide. Write the answer in simplest form.

4) $11 \div \frac{11}{3}$

A) 2 B) 3 C) $\frac{3}{2}$ D) 4

Add and simplify.

5) $\frac{1}{5} + \frac{2}{25}$

A) $\frac{36}{125}$ B) $\frac{1}{10}$ C) $\frac{7}{25}$ D) $\frac{3}{25}$

Subtract and simplify.

6) $38\frac{2}{3} - 25\frac{13}{16}$

A) $13\frac{41}{48}$ B) $11\frac{41}{48}$ C) $12\frac{41}{48}$ D) 12

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

A) $\frac{3}{25}$ B) $\frac{2}{3}$ C) $\frac{1}{2}$ D) $\frac{13}{25}$

Solve.

8) One week in March in the town of Brownsville, it rained 2.90 inches on Tuesday, 1.08 inches on Wednesday, and 0.63 inches on Saturday. It didn't rain the other four days. What was the total rainfall for the week?

A) 4.51 inches B) 4.59 inches C) 4.41 inches D) 4.61 inches

Subtract.

9)
$$\begin{array}{r} 6.02 \\ -\ 2.94 \\ \hline \end{array}$$

A) 3.08 B) 4.08 C) 4 D) 3.18

Multiply.

10)
$$\begin{array}{r} 0.04 \\ \times\ 0.06 \\ \hline \end{array}$$

A) 0.0024 B) 0.000024 C) 0.024 D) 0.24

Divide, and round the quotient as indicated.

11) Divide 5.77 by 0.03 and round the quotient to the nearest tenth.

A) 192.8 B) 192.3 C) 19.2 D) 19.3

List all the factors of the number.

12) 63

A) 1, 3, 5, 7, 9, 11, 21, 63

B) 3, 5, 7, 9, 11, 21, 63

C) 1, 3, 7, 9, 21, 63

D) 1, 2, 3, 7, 9, 21, 36, 63

Write the rate as a fraction in simplest form.

13) 432 miles in 48 minutes

A) $\frac{432 \text{ miles}}{48 \text{ minutes}}$

B) $\frac{1 \text{ mile}}{9 \text{ minutes}}$

C) $\frac{9 \text{ miles}}{1 \text{ minute}}$

D) $\frac{45 \text{ miles}}{5 \text{ minutes}}$

Solve the proportion for the given variable.

14) $\frac{1}{7\frac{1}{2}} = \frac{n}{30}$

A) $n = \frac{30}{7}$

B) $n = 5$

C) $n = 4$

D) $n = 4\frac{1}{2}$

Write the percent as a fraction or mixed number in simplest form.

15) $35\frac{5}{7}\%$

A) $\frac{5}{7}$

B) $\frac{5}{28}$

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

D) $3\frac{4}{7}$

Solve.

16) What number is $15\frac{3}{4}$ % of 51?

A) 8.0325 B) 80.325 C) 3.24 D) 803.25

Write the decimal as a percent.

17) The Sayed family saves 0.14 of their income. Write this decimal as a percent.

A) 1.4% B) 0.0014% C) 0.014% D) 14%

Solve. If necessary, round to the nearest tenth.

18) The enrollment at a local college increased 11% over last year's enrollment of 3900. Find the current enrollment.

A) 3911 students B) 8190 students C) 4329 students D) 429 students

Convert the measurement as indicated.

19) 6 ft 5 in. = _____ in.

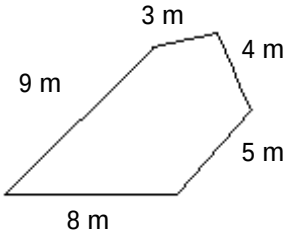
A) 66 in. B) 11 in. C) 71 in. D) 77 in.

20) $5\frac{3}{4}$ gal to quarts

A) 20 qt B) 10 qt C) 46 qt D) 23 qt

Find the perimeter of the figure.

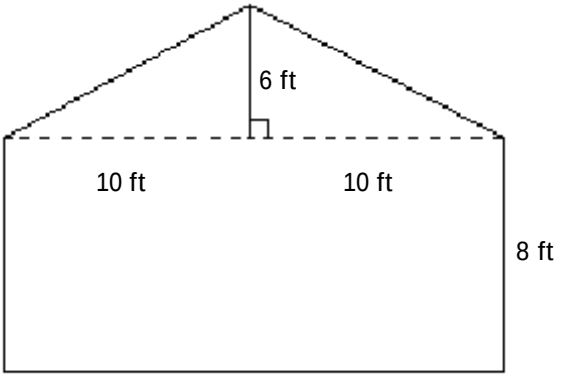
21)



A) 20 m B) 21 m C) 24 m D) 29 m

Solve.

22)

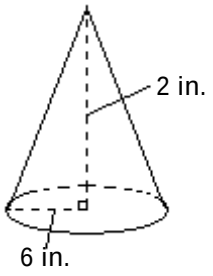


The drawing shows the end of a building that is to be bricked. If the area of the side of a brick used is $\frac{1}{6}$ sq. ft, find the number of bricks needed to completely cover the side of the building.

A) 1320 bricks B) 1680 bricks C) 36 bricks D) 220 bricks

Find the volume of the solid.

23) Cone



Use 3.14 as the approximate value for π. Round results to the nearest whole number.

A) 75 cu. in. B) 151 cu. in. C) 113 cu. in. D) 25 cu. in.

Simplify the expression by combining like terms.

24) -12y - 3x - 9x

A) -12y - 6x B) -12y - 12x C) -12y + 6x D) -24xy

Evaluate the expression for the given values.

25) The expression $\frac{9C}{5} + 32$ gives the equivalent degrees Fahrenheit for C degrees Celsius. Evaluate this expression when C = 40 to find the equivalent temperature in degrees Fahrenheit.

A) 103 B) 112 C) 104 D) 96