

Name _____

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

Write the decimal as a percent.

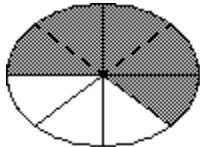
- 1) In an extended care facility, 0.984 of the residents require a particular heart medication.
A) 984% B) 98.4% C) 9.84% D) 0.984%

Write the percent as a decimal.

- 2) Video games made up 79.3% of the total revenue for a small specialty store.
A) 7.93 B) 79.3 C) 0.793 D) 0.0793

Determine what percent of the figure is shaded.

3)



- A) 60% B) 37.5% C) 50% D) 62.5%

Solve.

- 4) 8.0% of 2200 is what number?
A) 176 B) 18 C) 17,600 D) 1760

Translate the question into a proportion. Do not solve.

- 5) 8.6 is what percent of 73?
A) $\frac{73}{8.6} = \frac{p}{100}$ B) $\frac{8.6}{73} = \frac{p}{100}$ C) $\frac{a}{73} = \frac{8.6}{100}$ D) $\frac{73}{b} = \frac{8.6}{100}$

Solve.

- 6) 75% of the teachers in a school are male. If there are 200 teachers altogether, how many teachers are male?
A) 267 teachers B) 50 teachers C) 150 teachers D) 38 teachers
- 7) A sales representative is paid a commission rate of 2.3%. Find her commission if she sold \$117,430 worth of goods last month.
A) \$51,056.52 B) \$2700.89 C) \$120,130.89 D) \$5105.65
- 8) A \$320 watch is on sale at 15% off. Find the sale price.
A) \$48.00 B) \$3152.00 C) \$272.00 D) \$4.80

Convert as indicated.

9) 4.89 m to centimeters

- A) 0.0489 cm B) 489 cm C) 48.9 cm D) 0.489 cm

10) 39 ft to yards

- A) 13 yd B) 117 yd C) $4\frac{1}{3}$ yd D) 1404 yd

11) 69.24 g to milligrams

- A) 0.006924 mg B) 0.06924 mg C) 69,240 mg D) 6,924 mg

12) 816 oz to pounds

- A) 81 lb B) 204 lb C) 51 lb D) 52 lb

Perform the indicated operation.

13) $9 \text{ kg} - 1852 \text{ g}$

- A) 7.148 g B) 7148 kg C) 7.148 kg D) -952 g

Convert as indicated. If necessary, round to two decimal places.

14) 15.5 liters to gallons

- A) 58.75 gal B) 4.03 gal C) 14.73 gal D) 16.43 gal

Convert as indicated. Round to the nearest tenth of a degree, if necessary.

15) Water boils at 212°F . Find this temperature in degrees Celsius.

- A) 324°C B) 0°C C) 100°C D) 212°C

FREE RESPONSE. Work out the problems below, step by step. Show as much work as possible.

Solve.

16) A union contract calls for a 3.9% salary increase for all employees. Determine the increase that a worker currently making \$48,890 under this contract can expect.

Find the total amount in the compound interest account.

- 17) \$8000 is compounded quarterly at a rate of 11% for 20 years. (The compound interest factor is 8.76085.)

Solve. Remember to insert units when writing your answer.

- 18) A submarine probe was lowered to a point 1 mile 3602 feet below the ocean's surface. Later it was lowered an additional 1 mile 3879 feet below this point. How far is the probe below the surface?

- 19) A company ships its product in boxes weighing 8 lb 4 oz. The boxes are packed in cartons of 3 boxes each. How much will 2 cartons weigh?

Solve.

- 20) A doctor orders a dosage of 5 mL of medicine every 4 hours for 10 days. How many fluid ounces of medicine should be purchased? Round up to the next whole fluid ounce.

Answer Key

Testname: MATH070COMMONEXAM03 SPRING 2009(CHAPTERS6-7)

- 1) B
- 2) C
- 3) D
- 4) A
- 5) B
- 6) C
- 7) B
- 8) C
- 9) B
- 10) A
- 11) C
- 12) C
- 13) C
- 14) B
- 15) C
- 16) \$1906.71
- 17) \$70,086.80
- 18) 3 mi 2201 ft
- 19) 49 lb 8 oz
- 20) 11 fl oz