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

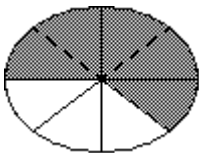**Write the decimal as a percent.**
　　1) In an extended care facility, 0.2555 of the residents require a particular heart medication.
　　　　A) 2555%　　　　　　　　B) 25.55%　　　　　　　　C) 2.555%　　　　　　　　D) 0.2555%

Write the percent as a decimal.
　　2) Video games made up 41.5% of the total revenue for a small specialty store.
　　　　A) 4.15　　　　　　　　　B) 41.5　　　　　　　　　C) 0.415　　　　　　　　　D) 0.0415

Determine what percent of the figure is shaded.
　　3)

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

Solve.
　　4) 8.5% of 1000 is what number?
　　　　A) 85　　　　　　　　　　B) 9　　　　　　　　　　C) 8500　　　　　　　　　D) 850

Translate the question into a proportion. Do not solve.
　　5) 16.8 is what percent of 53?
　　　　A) $\dfrac{53}{16.8} = \dfrac{p}{100}$　　　　B) $\dfrac{16.8}{53} = \dfrac{p}{100}$　　　　C) $\dfrac{a}{53} = \dfrac{16.8}{100}$　　　　D) $\dfrac{53}{b} = \dfrac{16.8}{100}$

Solve.
　　6) 24% of the accountants in a business are male. If there are 375 accountants altogether, how many accountants are male?
　　　　A) 1562 accountants　　　B) 285 accountants　　　C) 90 accountants　　　D) 6 accountants

　　7) A sales representative is paid a commission rate of 2.8%. Find her commission if she sold $129,030 worth of goods last month.
　　　　A) $46,082.14　　　　　　B) $3612.84　　　　　　　C) $132,642.84　　　　　　D) $4608.21

　　8) A $240 camera is on sale at 10% off. Find the sale price.
　　　　A) $24.00　　　　　　　　B) $2376.00　　　　　　　C) $216.00　　　　　　　D) $2.40

Convert as indicated.
　　9) 7.75 m to centimeters
　　　　A) 0.0775 cm　　　　　　B) 775 cm　　　　　　　　C) 77.5 cm　　　　　　　　D) 0.775 cm

　　10) 90 ft to yards
　　　　A) 30 yd　　　　　　　　B) 270 yd　　　　　　　　C) 10 yd　　　　　　　　　D) 3240 yd

11) 66.59 g to milligrams
    A) 0.006659 mg   B) 0.06659 mg   C) 66,590 mg   D) 6,659 mg

12) 352 oz to pounds
    A) 35 lb   B) 88 lb   C) 22 lb   D) 23 lb

Perform the indicated operation.
13) 8 g – 1632 mg
    A) 6.368 mg   B) 6368 g   C) 6.368 g   D) –832 mg

Convert as indicated. If necessary, round to two decimal places.
14) 11.5 liters to gallons
    A) 43.59 gal   B) 2.99 gal   C) 10.93 gal   D) 12.19 gal

Convert as indicated. Round to the nearest tenth of a degree, if necessary.
15) Water freezes at 32°F. Find this temperature in degrees Celsius.
    A) 1.8°C   B) 100°C   C) 0°C   D) 32°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 5.7% salary increase for all employees. Determine the increase that a worker currently making $52,630 under this contract can expect.

Find the total amount in the compound interest account.
17) $11,000 is compounded quarterly at a rate of 8% for 20 years. (The compound interest factor is 4.87544.)

Solve. Remember to insert units when writing your answer.
18) A submarine probe was lowered to a point 1 mile 3648 feet below the ocean's surface. Later it was lowered an additional 1 mile 3735 feet below this point. How far is the probe below the surface?

19) A company ships its product in boxes weighing 4 lb 6 oz. The boxes are packed in cartons of 2 boxes each. How much will 5 cartons weigh?

Solve.
20) A doctor orders a dosage of 12 mL of medicine every 8 hours for 1 week. How many fluid ounces of medicine should be purchased? Round up to the next whole fluid ounce.