RP3 Multchoice

1.) Cameron uses color film for 48 out of every 72 photographs he takes. If he takes 156 photographs, how many will be on color film?

    A. 72 photos
    B. 104 photos
    C. 156 photos
    D. 234 photos
    E. 276 photos

2.) A basketball player was successful on 18 out of his last 24 free-throws attempts. If he attempts 20 free-throws in the next game, about how many will he make if the ratio is the same as the first game?
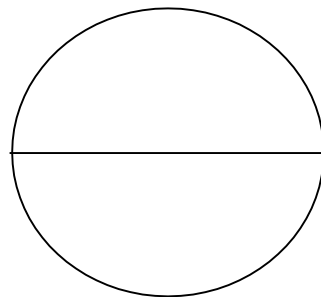
    A. 6
    B. 4
    C. 15
    D. 18
    E. 20

3.) Maria made punch for a party. The ratio of a can concentrated juice to water is one to three. How much water did she use with 4 cans of concentrated juice?

    A. 12
    B. 8
    C. 6
    D. 4
    E. 3

4.) The scale of this drawing of a wheel is 1 feet: 30 inches.
What is the actual diameter of the wheel?

    A. 30 inches
    B. 45 inches
    C. 60 inches
    D. 15 feet
    E. 30 feet

I--------- 1.5 ft -------- I

5.) Audrey makes an average of 148 minutes of business calls every 2 days. At this rate, how much time does she spend making business calls in a five-day work week?

    A. 12 hours 20 minutes
    B. 6 hours 10 minutes
    C. 5 hours 50 minutes
    D. 4 hours 56 minutes
    E. 2 hours 28 minutes

6.) A sleeping person breaths an average of 15 times a minute. How many breathes would someone take during 8 hours of sleep?

    A. 120 breaths
    B. 480 breaths
    C. 900 breaths
    D. 1920 breaths
    E. 7200 breaths

7.) A typical walking rate is 1 mile in twenty minutes. If a jogger can jog about 3 times that speed, approximately how far would that jogger be able to jog in 2 hours?

    A. 2 to 3 miles
    B. 5 to 6 miles
    C. 8 to 13 miles
    D. 15 to 30 miles
    E. 30 to 35 miles

8.) If 25 pounds of sugar costs $6.25, how much does each pound cost?

    A. $.20
    B. $.25
    C. $.62
    D. $.85

9.) Greg purchased a set of 4 tires for $ 208.32. How much did he pay per tire?

    A. $5.28
    B. $52.08
    C. $52.80
    D. $528.00

10.) If the scale on a map is 1 cm = 210 miles, what is the actual distance between two points 2.5 cm on the map?

    A. 5250 mi.

    A. 525 mi.

    B. 420 mi.

    C. 210 mi.

    D. 2.5 mi.

11.) The scale on a map is 2 cm = 15 km. How far apart are two cities shown as 7 cm apart on the map?

    A. 4.3 km

    B. 15.5 km

    C. 30 km

    D. 52.5 km

    E. 62.5 km

12.) A map is drawn to a scale of 1 inch = 15 miles. If the distance on the map from one side of town to the other is 3 inches, what is the actual distance?

    A. 5 miles

    B. 15 miles

    C. 18 miles

    D. 45 miles

13.) The ratio of men to women at a dance was 2 to 3. If there were 300 people at the dance, which of the following proportions could be used to find M, the number of men at the dance?
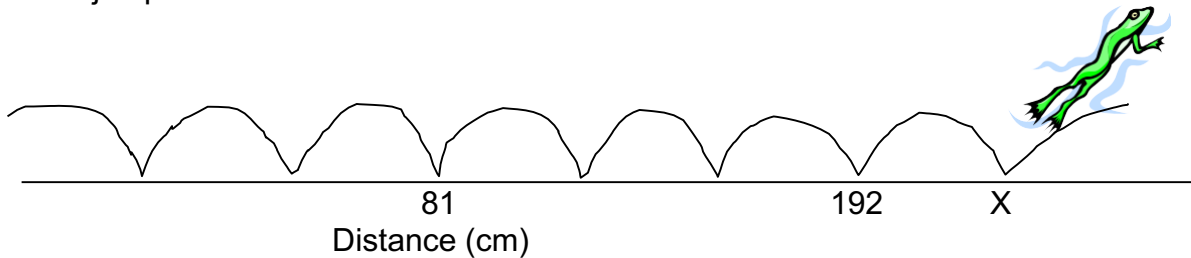
$$\frac{2}{3} \bullet \frac{M}{300} \qquad \frac{2}{3} \bullet \frac{300}{M} \qquad \frac{2}{5} \bullet \frac{M}{300} \qquad \frac{2}{5} \bullet \frac{300}{M}$$

14.) If soup is on sale at 3 cans for a dollar but you buy only 2 cans, what will you pay if the clerk automatically rounds up all fractions of a cent?

    A. $0.33

    B. $0.34

    C. $0.66

    D. $0.67

    E. $1.00

15.) Suppose a frog made equal jumps across a road and the distances were measured and recorded as shown in the diagram below. How should the measure at point X be labeled to be consistent with the labeling of the frog's jumps?

81   192   X

Distance (cm)

A. X = 200   B. X = 222   C. X = 229   D. X = 273

16.) If you are told that 1 inch on a drawing equals 4 feet on an actual object, which of these line segments on a drawing represents a length of 12 feet on the actual project?

A. Line segment 3 inches in length.
B. Line segment 12 inches in length.
C. Line segment 48 inches in length.
D. Line segment ¼ inch in length.
E. Line segment ⅓ inch in length.

17.) If each ¼ inch of a floor plan represents 2 feet, what length is represented by a 4¾ inch segment?

A. 38 feet
B. 19 feet
C. 9.5 feet
D. 7 feet
E. 5 feet

18.) Which pair of ratios has the same value?

A. $\dfrac{3}{8}$ and $\dfrac{6}{18}$

B. 10 to 25 and 16 to 40
C. 6:25 and 24:150
D. 9 to 12 and 12 to 9
E. None of the above

19.) Solve for x: $\dfrac{8}{9} \bullet \dfrac{32}{x}$

A. 39.7
B. 36
C. 33
D. 31
E. 28.4

20.) If the ratio of cars to trucks is 1:3 what percent of vehicles are trucks?

A. ⅓%
B. 25%
C. 33⅓%
D. 75%
E. 80%

21.) A machine can make 20 parts in 5 minutes. How long will it take the machine to make 30 parts?

A. 0.13 minutes
B. 3 minutes
C. 7.5 minutes
D. 10 minutes
E. 120 minutes

22.) A machine seals 30 boxes in 2 minutes. How many minutes would it take to seal 105 boxes?

A. 3.5 minutes
B. 7 minutes
C. 22.5 minutes
D. 37.5 minutes
E. 60 minutes

23). Brandon wants to enlarge a photo that is 4 inches wide and 6 inches high to make a 24-inch-wide poster. How high will the poster be?

A. 36 inches
B. 34 inches
C. 24 inches
D. 16 inches
E. 10 inches

24.) A teacher can grade 5 exams in 3 minutes. At this rate, how long will it take the teacher to grade 30 exams?

    A. 6 minutes
    B. 10 minutes
    C. 15 minutes
    D. 18 minutes
    E. 38 minutes

25.) The Dukes have won three of their last five games. If this pattern continues and the season has twenty games, how many more games will the Dukes win by the end of the season?

    A. 6
    B. 9
    C. 12
    D. 15
    E. 18