Arithmetic Review 3

1. If the average of 6.2 and 'n' is 4.4, what is the number 'n'?

2. What number divided by 3.8 is 1.9?

3. What is 16% of 30% of 24?

4. A shirt costing $16 is on sale for 15% off. If you were to apply a coupon for 10% off of the sale, what would you pay for the shirt?

5. Solve for 'n':

$$3\frac{2}{9} + \frac{n}{3} = 4\frac{1}{9}$$

6. Solve for 't':

$$6\frac{1}{2} - \frac{3t}{4} = \frac{10}{8}$$

7. You have a rectangular yard that is 48 square feet in area in which you want to put a square garden surrounded by concrete. If the concrete takes up 12 square feet, what is the length of a side of a square garden?

8. If a cylinder has a volume of 96π centimeters cubed, and stands 6 centimeters tall, find its radius. ($V = \pi r^2 h$)

9. If you ran around a rectangular park whose length is three times its width, and ran 1600 m total, what is the length and width of the park?

10. What is 8456 divided by 100?

11. If you had a pole that extends out 10 times its original length of 14.3 feet, how long would the pole be if you fully extended it?

12. Find the equivalent values:

        A. $6\dfrac{1}{8}$ B. $\dfrac{32}{5}$

  a. $\dfrac{50}{8}$ b. $\dfrac{49}{8}$ a. $5\dfrac{2}{6}$ b. $2\dfrac{5}{6}$

  c. $\dfrac{48}{6}$ d. $\dfrac{15}{8}$ c. $6\dfrac{2}{5}$ d. $2\dfrac{6}{5}$

13. You have two pies, one cut into fourths and the other into eighths. If Jim eats 2 slices of the pie that is cut into eights, how many of the fourths would you have to eat in order to eat an equivalent amount of pie?

14. If you depart in an airplane from Philadelphia to Los Angeles (3 hour time difference) at 7:00 am (Phila. Time), and the trip takes 5 hours, what time is it in Los Angeles when you arrive?

15. Solve:

$$\frac{5}{9} + \frac{3}{6} =$$

16. Solve:

$$\frac{7}{9} - \frac{2}{3} =$$

17. Solve:

$$\frac{9}{24} - \frac{3}{6} =$$

18. If your train leaves at 6:52 am, and you arrive at 9:23 am, how long was your trip?

19. Solve for 'p':

$$6 (p - 3) + p = 3p$$

20. If a club sells tickets to a show at $12 for adults and $6 for children, makes a total of $348 on 36 total tickets, how many of each type did they sell?

Answers

1. n = 2.6

2. 7.22

3. 1.152

4. $12.24

5. n = 8/3

6. t = 7

7. length = 6 feet

8. radius = 4 cm

9. width = 200 m, length

10. 84.56

11. 143 ft

12. 1: b. $\dfrac{49}{8}$ 2: c.$6\dfrac{2}{5}$

13. 1 piece of pie.

14. 9:00 am

15. $\dfrac{19}{18}$ or $1\dfrac{1}{18}$

16. $\dfrac{1}{9}$

17. -1/8

18. 2:31 minutes

19. p = 4.5

20. 22 adult tickets and 14 children's tickets.