

1) If you begin with a one-digit number, multiply by 3, add 8, divide by 2 and subtract 6, you will get the number back. Find the number.

2) How many 12 ounce juices would it take to give 72 people each an 8-ounce serving?

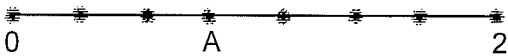
3) Dennis the Menace is thinking of two numbers. Their Greatest Common Factor is 6. Their Least Common Multiple is 36. One of the numbers is 12. What is the other number?

4) Farmer Tom put a square fence around his vegetable garden to keep the deer from eating his corn. One side was 10m in length. If the posts were placed 2m apart, how many posts did he use?

5) There are 12 people in a room. 6 people are wearing socks and 4 people are wearing shoes. 3 people are wearing both. How many people are bare feet?

6) Elmer Fudd decided to grow a garden so he could make salad. He wants to make it 10.1 m long and 4.2 m wide. However, in order to avoid Bugs Bunny from entering his garden he must make a fence surrounding the garden. He decided to make the fence 11.2 m long and 5.0 wide. What is the area between the fence and the garden?

7) A number line from 0 to 2 is divided into seven equal segments. What fraction names point A?



8) A man divides his money among his four children. One child gets half the money, a second child gets one-fourth the money, a third child gets one-fifth the money, and the fourth child gets \$700. How much money did the man have?

9) If Jane is older than Kim. Kim is older than Shawn. Shawn is younger than Jane, and Rachel is older than Jane. List the people from oldest to youngest.

10) Sixteen players enter a tennis tournament. If there can be no draws, how many games must be played if each player can be eliminated by one loss?

11) A side of square B is four times the length of a side of square A. How many times greater is the area of square B than the area of square A?

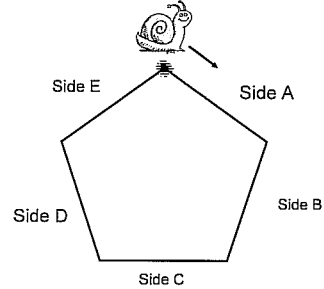
A

B

12) Pat made nine baskets in the basketball game. The coach reported that Pat made 60% of her shots. How many times did Pat shoot the ball in all?

13) A math student interviewed 50 fifth graders. 41 said they like peanut butter, 35 liked jam, and 30 liked both. How many liked neither?

14) Shane the Snail started at the dot. What side will he be on when he has crawled $\frac{13}{20}$ of the distance around the regular pentagon of equal sides?



15) The peel of a banana weighs about $\frac{1}{8}$ of the total weight of the banana. If you buy 3 kg. of bananas at 1 kg for \$.60, about how much are you paying for the banana itself, excluding the peel? Round to the nearest cent.

16) The magician said, "The average of seven numbers is 49. If 1 is added to the first number, 2 is added to the second number, 3 is added to the third number and so on up to the seventh number." What is the new average?

ANSWERS

- 1) 4
- 2) 48
- 3) 18
- 4) 20
- 5) 5
- 6) 13.58 sq. un.
- 7) $\frac{6}{7}$
- 8) \$14,000
- 9) Rachel, Jane, Kim, Shawn
- 10) 15 games
- 11) 16 times
- 12) 15
- 13) 4
- 14) Side D
- 15) \$1.58
- 16) 53