

Student Name: \_\_\_\_\_

1. A number is called “jolly” if the sum of its digits is even. How many two-digit jolly numbers are there?

Answer: \_\_\_\_\_

2. Ten years ago, Alex was three times as old as Beth. Now, Alex is six years older than Beth. How old is Beth now?

Answer: \_\_\_\_\_

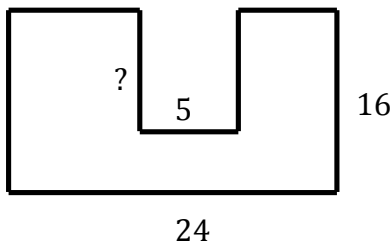
3. Cindy is a scientist studying a certain type of bacteria. She notices that the number of bacteria on a Petri dish doubles every 20 minutes. If she has 2 bacteria at 5pm, how many bacteria will she have at 8pm the same day?

Answer: \_\_\_\_\_

4. Dan wrote down 3 different natural numbers on a blackboard. The product of these numbers is 15. What is the sum of these 3 numbers? (Reminder: a natural number is a whole number that is positive. In other words, the natural numbers are 1, 2, 3, 4, 5, ...)

Answer: \_\_\_\_\_

5. The perimeter of the figure below is 100. Find the length of the side labelled “?”.



Answer: \_\_\_\_\_

6. Five people, named Al, Bob, Cindy, Dan, and Ed, are in a pie-eating contest. Al cuts his pie into 3 equal pieces and eats 2 pieces. Bob cuts his pie into 4 equal pieces and eats 2 pieces. Cindy cuts her pie into 5 equal pieces and eats 3 pieces. Dan cuts his pie into 7 equal pieces and eats 4 pieces. Ed cuts his pie into 10 equal pieces and eats 5 pieces. Who ate the most pie?

Answer: \_\_\_\_\_

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7. There are 46 students in a class. 17 students know how to ride a bike, 14 students know how to swim, and 19 students don't know how to swim or ride a bike. How many students know both how to swim and how to ride a bike?

Answer: \_\_\_\_\_

8. The distance between Ed's house and Fiona's house is 3000 metres. Fiona takes 30 minutes to walk this distance. Ed takes 60 minutes to walk this distance. One day, Fiona and Ed both started walking towards each other at the same time. After how much time did they meet?

Answer: \_\_\_\_\_