

12. Sarang, who can build a house in 20 days, took 76 days to build 7 houses when Narang joined him after 28 days. Find how long Narang takes to build a house.
- A. 12 days
  - B. 15 days
  - C. 18 days
  - D. 20 days
  - E. 22 days
13. If a cylinder is melted, how many small cylinders can be formed from the molten metal having  $1/10$ th the radius and  $1/10$ th the height?
- A. 10
  - B. 100
  - C. 1000
  - D. 10000
  - E. None of the above
14. A varies in direct proportion to the  $n$ th power of B. If  $\log A$  is plotted on the Y-axis and  $\log B$  on the X-axis, what would the curve look like
- A. a circle
  - B. a U shaped curve with vertex at origin
  - C. a straight line
  - D. a V shaped curve with vertex at origin
  - E. an ellipse
15. If the Arithmetic and Geometric means of two numbers are 10 and 8 respectively, one of the numbers is
- A. 16
  - B. 18
  - C. 8
  - D. 9
  - E.  $\sqrt{18}$
16. Suppose 5 monkeys take 5 minutes to eat 5 bananas. How many monkeys would it take to eat 20 bananas in 20 minutes?
- A. 5
  - B. 2
  - C. 10
  - D. 20
  - E. 4
17. Pipe A can fill a tank in 30 minutes and pipe B can fill it in 20 minutes. If  $\frac{3}{4}$  of the tank is filled by pipe B and afterwards both are opened, how much total time is required to fill the tank completely?
- A. 12
  - B. 15
  - C. 18
  - D. 21
  - E. 50
18. After six years the ages of two brothers will be in the ratio of 5:6. Six years ago their ages were in the ratio of 3:4. What is the present age of younger brother?
- A. 18