

## QUANTITATIVE ABILITY

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**Q1. Pipe A takes 16 min to fill a tank. Pipes B and C, whose cross-sectional circumferences are in the ratio 2:3, fill another tank twice as big as the first. If A has a cross-sectional circumference that is one-third of C, how long will it take for B and C to fill the second tank? (Assume the rate at which water flows through a unit cross-sectional area is same for all the three pipes.)**

- 66/13
- 40/13
- 16/13
- 32/13

**Q2. Which pair of rational numbers lie between  $1/5$  and  $2/5$  –**

- 262/1000, 275/1000
- 362/1000, 562/1000
- 451/1000, 552/1000
- 121/1000, 131/1000

**Q3. If  $x$  increases linearly, how will  $a^{-x}$  behave ( $a > 1$ )?**

- Increase linearly
- Decrease linearly
- Increase exponentially
- Decrease exponentially

**Q4. If  $x\%$  of  $a$  is the same as  $y\%$  of  $b$ , then  $z\%$  of  $b$  is :**

- $(xy/z)\%$  of  $a$
- $(yz/x)\%$  of  $a$
- $(xz/y)\%$  of  $a$
- None of these

**Q5. Three consecutive whole numbers are such that the square of the middle number is greater than the product of the other two by 1. Find the middle number.**

- 6
- 18
- 12
- All of these