

Time

1. My clock is 10 minutes slower than my phone, which is 3 minutes fast. My bus leaves 5 minutes early on Wednesdays and Fridays and 5 minutes late on other days, although it is scheduled for 8:30am. It takes me 35 minutes to get to the bus stop. When should I leave on a Thursday, according to my phone?

A: 7:57am B: 8:00am C: 8:03am D: 8:06am E: None of these

2. Every morning I take bus A and bus B to work. Bus A takes 35 minutes, while bus B takes 25 minutes. After I get off bus A, it takes me 15 minutes to drop off my child before I could get onto bus B. The schedules for the buses where I get on board are:

Bus A	Bus B
07:05	07:00
07:15	07:15
07:20	07:30
07:40	07:45
07:55	07:55
08:10	08:15
08:30	08:30
08:45	08:45

If I need to arrive at or before 09:00, when is the latest time that I should leave?

A: 07:05 B: 07:15 C: 07:20 D: 07:40 E: 08:10

3. For problem (2), I get a bonus if I arrived 10 minutes or more before 09:00. What is the latest time that I should leave in order to get a bonus?

A: 07:05 B: 07:15 C: 07:20 D: 07:40 E: 08:10

4. Richard's clock is 6 minutes fast. He sets his clock alarm at 6:15 and repeats every 6 minutes thereafter. Lok's clock is 5 minutes slow. He sets his clock alarm at 6:20 and repeats every 7 minutes thereafter. When is the actual time that both clock alarms sound at the same time?

A: 06:15 B: 06:23 C: 06:30 D: 06:39 E: 07:05

5. Danny is 21 years younger than Cathy, who is 18 years older than Bob. Amy's age is the average of the four. If the total of their age is a multiple of 11, what could be Bob's age?

A: 5 B: 6 C: 7 D: 8 E: None of these

6. Jess is 23 years older than Henry. In 15 years Jess will be twice as old as Henry. What is Jess' current age?
- A: 15 B: 28 C: 31 D: 36 E: None of these
7. The number of bacteria in a sample will double every day. If the initial number is 10, during which day would the number reach 100?
- A: 2 B: 3 C: 4 D: 5 E: None of these
8. Another sample of bacteria will double every 12 hours. If the initial number is 10, during which day would the number reach 1000?
- A: 3 B: 5 C: 7 D: 9 E: None of these
9. It took 6 men to build a house in 30 days. How many days will be needed for 20 men to build 6 houses?
- A: 40 B: 48 C: 50 D: 54 E: None of these
10. An existing broadband network could deliver one billion bytes of data per second. A new network could triple the amount of data in a quarter of the time. How fast is the new network in bytes per second?
- A: 2 billion B: 8 billion C: 12 billion D: 16 billion E: None of these
11. Computer A could complete a job in $\frac{3}{4}$ of the time of computer B. Computer C could complete the same job in $\frac{5}{12}$ of the time of computer B. If computer B took one hour to complete a job, how much earlier (in minutes) would computer C finish before computer A for the same job?
- A: 10 B: 15 C: 20 D: 25 E: None of these
12. In a Gregorian calendar there are 365 days in a year. In another calendar there are 215 days a year. Today John celebrates his birthday on both calendars. How many Gregorian years later would his birthday be on the same day in both calendars again (ignore leap years)?
- A: 35 B: 42 C: 48 D: 52 E: None of these

END

ANS

1 C 2. D 3. C 4. D 5. B 6. C 7. C 8. E 9. D
10. C 11. C 12. E