

Clocks

1. At what time, in minutes, between 3 o' clock and 4 o' clock, both the needles will coincide each other?
(A) $5\frac{1}{11}$ past 3 (B) $12\frac{4}{11}$ past 3
(C) $13\frac{4}{11}$ past 3 (D) $16\frac{4}{11}$ past 3
2. At what time between 7 and 8 o' clock will the hands of a clock be in the same straight line but, not together?
(A) 5 min. past 7 (B) $5\frac{2}{11}$ min. past 7
(C) $5\frac{3}{11}$ min. past 7 (D) $5\frac{5}{11}$ min. past 7
3. A watch which gains uniformly is 2 minutes slow at noon on Monday and is 4 min. 48 sec. fast at 2 p.m. on the following Monday. When was it correct?
(A) 2 p.m. on Wednesday
(B) 2 p.m. on Tuesday
(C) 3 p.m. on Thursday
(D) 1 p.m. on Friday
4. A clock loses 5 minutes everyday and another gains 10 min. everyday. They both are set right at 3:00 p.m. on a particular day. In how many days will they show the same time?
(A) 24 (B) 36
(C) 72 (D) 96
5. At a railway station, a 24 hour watch loses 3 minutes in 4 hours. If it is set correctly on Sunday noon when will the watch show the correct time again?
(A) 6 p.m. after 40 days
(B) 12 noon after 75 days
(C) 12 p.m. after 100 days
(D) 12 noon after 80 days
6. A Greek watch is being shown in a museum which has a very peculiar property. It gains as much in the day as it loses during night between 8 p.m. to 8 a.m. In a week how many times will the clock show the correct time?
(A) 6 times (B) 14 times
(C) 7 times (D) 8 times
7. How many times in a day the hands of the clock are in a straight line but not together?
(A) 24 (B) 22
(C) 12 (D) 11
8. An accurate clock shows 8 o'clock in the morning. Through how many degrees will the hour hand rotate when the clock shows 2 o'clock in the afternoon?
(A) 144° (B) 150°
(C) 168° (D) 180°
9. At what angle the hands of a clock are inclined at quarter to 5?
(A) $112\frac{1}{2}^\circ$ (B) $142\frac{1}{2}^\circ$
(C) $97\frac{1}{2}^\circ$ (D) $127\frac{1}{2}^\circ$
10. What is the angle (smaller) between the hands of a clock when the time is 20 minutes past 9?
(A) 150° (B) 120°
(C) 160° (D) None of these
11. What is the value of the reflex angle between the hands of a clock at 10:25?
(A) 150° (B) $192\frac{1}{2}^\circ$
(C) $162\frac{1}{2}^\circ$ (D) $197\frac{1}{2}^\circ$
12. In a day, how many times the minute-hand and hour-hand make right angle between them?
(A) 12 (B) 20
(C) 22 (D) 44