

Worked Examples – Angle Between the Hands on the Clock – I

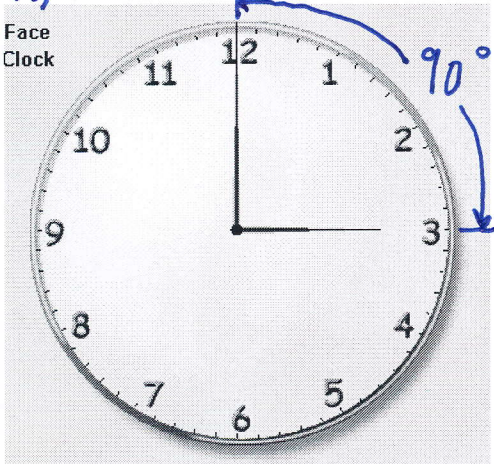
Find the angle between the minute hand and the hour hand on the clock at the following times:

1. 3:00
2. 1:00
3. 5:00
4. 6:30

Solutions:

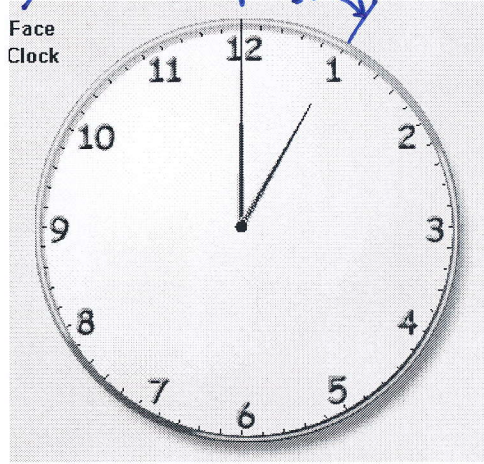
1.) 90°

Face
Clock

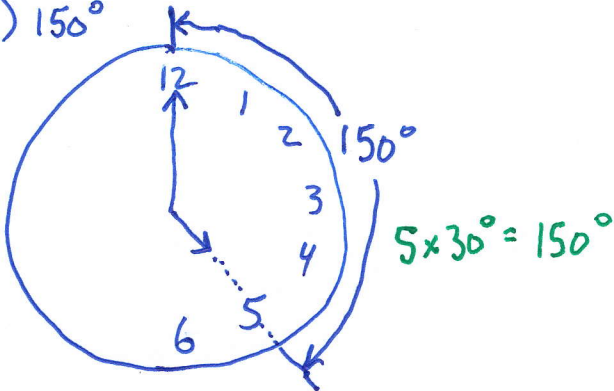


2.) 30°

Face
Clock



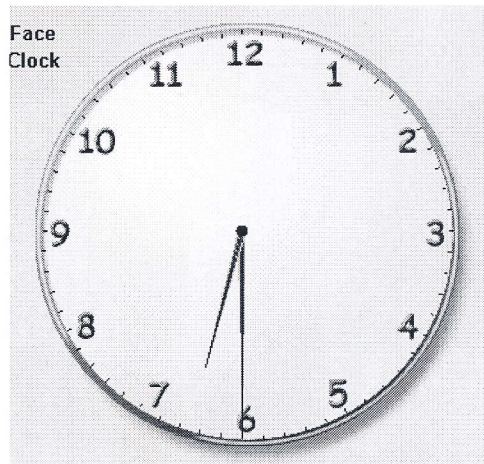
3.) 150°



Note that the angle between consecutive numbers on the clock is 30° (because $\frac{1}{12}$ of $360^\circ = 30^\circ$).

4.) 15°

Face
Clock



30 minutes is half an hour. The hour hand has moved half way from the 6 to the 7.

Half of 30° is 15° . The hour hand has moved 15° in half an hour.

Objective: Given a time of day, find the angle between the hands on the clock.