

**Answer on Question #46261 – Math - Algebra**

At which time , 1:35 or 1:38 do you think opposite rays from? Explain

When the hour is between 1 and 2 o'clock what will the minute hand be between

**Solution.**

**Between 6 a.m. and 6 p.m. the hands make straight line 11 times (i.e. every**

**$\frac{12}{11}$  hour  $\approx 1$  hour  $5\frac{1}{2}$  min.).**

**Between 1 p.m. and 2 p.m. it gives us a time:**

$$6\text{hour} + 7\text{hour} + 5\frac{1}{2} * 7 \text{ min.} = 1:38\frac{1}{2} \text{ p.m.}$$

**Thus, the hands make straight line at approximately 1:38.**

**Minute hand overlap hour hand every  $\frac{12}{11}$  hour  $\approx 1$  hour  $5\frac{1}{2}$  min., beginning with 0:00.**

**So between 1 and 2 minute hand overlaps hour hand at approximately 1:05.**