

### Clocks

- What is the angle covered by the minute hand in 22 minutes?  
a)  $66^\circ$       b)  $110^\circ$       c)  $121^\circ$       d)  $220^\circ$       e)  $132^\circ$
- By how many degrees does an hour hand move in one quarter of an hour?  
a)  $5^\circ$       b)  $7.5^\circ$       c)  $10^\circ$       d)  $12.5^\circ$       e)  $25^\circ$
- By how many degrees will the minute hand move, in the same time in which the hour hand moves  $6^\circ$ ?  
a)  $54^\circ$       b)  $84^\circ$       c)  $72^\circ$       d)  $60^\circ$       e)  $96^\circ$
- What is the angle between the hands of the clock when it shows 40 minutes past 6?  
a)  $40^\circ$       b)  $70^\circ$       c)  $80^\circ$       d)  $90^\circ$       e)  $100^\circ$
- When the clock shows 3 hours 14 minutes, what is the angle between the hands of the clock?  
a)  $10^\circ$       b)  $12^\circ$       c)  $13^\circ$       d)  $14^\circ$       e)  $15^\circ$
- What is the angle between the two hands of a clock when the time is 25 minutes past 7 O' clock?  
a)  $62\frac{1}{2}^\circ$       b)  $66\frac{1}{2}^\circ$       c)  $72\frac{1}{2}^\circ$       d)  $69\frac{1}{2}^\circ$       e)  $73\frac{1}{2}^\circ$
- When the clock shows 20 minutes past 11 O' clock, what is the angle between the two hands of the clock?  
a)  $110^\circ$       b)  $120^\circ$       c)  $130^\circ$       d)  $140^\circ$       e)  $160^\circ$
- At what time between 9 and 10 O' clock, will both the two hands of the clock coincide?  
a)  $43\frac{3}{11}$  minutes past 9 O' clock  
b)  $45\frac{6}{11}$  minutes past 9 O' clock  
c)  $49\frac{1}{11}$  minutes past 9 O' clock  
d)  $49\frac{6}{11}$  minutes past 9 O' clock  
e)  $42\frac{8}{11}$  minutes past 9 O' clock
- At what time between 4 and 5 O' clock, are the hands of a clock in the opposite directions?  
a)  $52\frac{3}{11}$  minutes past 4 O' clock  
b)  $54\frac{6}{11}$  minutes past 4 O' clock  
c)  $51\frac{7}{11}$  minutes past 4 O' clock  
d)  $53\frac{9}{11}$  minutes past 4 O' clock  
e)  $58\frac{2}{11}$  minutes past 4 O' clock
- The angle between the hands of the clock is  $20^\circ$  and the hour hand is in between 2 and 3. What is the time shown by the clock?  
a) 2 hours  $7\frac{3}{11}$  minutes  
b) 2 hours  $14\frac{5}{11}$  minutes  
c) 2 hours  $15\frac{5}{11}$  minutes  
d) 2 hours  $12\frac{8}{11}$  minutes  
e) Both a) and b)
- Which of the following can be the time shown by the clock, when the hour hand is in between 4 and 5 and the angle between the two hands of the clock is  $60^\circ$ ?  
a)  $16\frac{4}{11}$  min past 4  
b)  $18\frac{9}{11}$  min past 4  
c)  $32\frac{8}{11}$  min past 4  
d)  $36\frac{5}{11}$  min past 4  
e)  $34\frac{6}{11}$  min past 4

12. How many times the hands of a clock will be at 30° with each other in a day?  
a) 36                      b)40                      c)44                      d)48                      e)50
13. How many times the minute hand of a clock overlaps with the hour hand from 9:00 a.m. to 4:00 p.m. in a day?  
a) 5                      b)6                      c)7                      d)8                      e)9
14. A watch gains uniformly was observed to be 1 minute slow at 8:00 a.m. on a day. At 6:00 p.m. on the same day it was 1 minute fast. At what time did the watch show the correct time?  
a) 12:00 noon   b) 1:00 p.m.   c) 2:00 p.m.   d) 3:00 p.m.   e) 4:00 p.m.
15. A watch which gains uniformly was observed to be 6 minutes slow at 9:00 a.m. on Tuesday and 3 minutes fast at 12:00 noon on the subsequent Wednesday. When did the watch show the correct time?  
a) 9:00p.m.onTuesday  
b) 12:00 a.m. on Wednesday  
c) 3:00 a.m. on Wednesday  
d) 6:00 a.m. on Wednesday  
e) 7:00 a.m. on Wednesday
16. A watch showed 10 minutes past 6 O' clock on Thursday morning when the correct time was 6 O' clock. It loses uniformly and was observed to be 15 minutes slow at 8 O' clock on Saturday morning. When did the watch show the correct time?  
a) 1 O' clock on Friday afternoon.  
b) 12 O'clock noon on Friday  
c) 4 O' clock on Friday evening  
d) 5 O' clock on Friday evening  
e) 2 O' clock on Friday morning
17. The minute hand of a clock overtakes the hour hand at intervals of 60 minutes of correct time. How much time does the clock gain or lose in one hour of correct time?  
a) Gains  $5\frac{5}{11}$  minutes.  
b) Loses  $5\frac{5}{11}$  minutes.  
c) Gains  $\frac{5}{11}$  minutes.  
d) Loses  $\frac{5}{11}$  minutes.  
e) None Of these
18. The minute hand of a clock overtakes the hour hand after every 70 minutes of correct time. How much time does the clock loss or gain in a day of normal time?  
a)  $93\frac{39}{77}$  minutes   b)  $91\frac{31}{77}$  minutes   c)  $92\frac{24}{77}$  minutes   d)  $94\frac{56}{77}$  minutes   e)  $95\frac{15}{77}$  minutes
19. Two clock are showing correct time at 4:00 p.m. One clock loses 3.5 minutes in an hour, while the other gain 2.5 minutes in one hour. At 10:00 p.m. on the same day, by how much time will the two clocks differ?  
a) 12 minutes                      b)36 minutes                      c)24 minutes                      d)30 minutes                      e)40minutes
20. There are two clocks on a wall both set to show the correct time at 5:00 p.m. The clocks lose 2 minutes and 3 minutes respectively in an hour. If the clock which loses 2 minutes in one hour shows the time as 9:50 p.m. on the same day then what time does the other clock show?  
a) 9:30 p.m.                      b) 9:40 p.m.                      c) 9:45 p.m.                      d) 10:15 p.m.                      e)10:30 p.m.

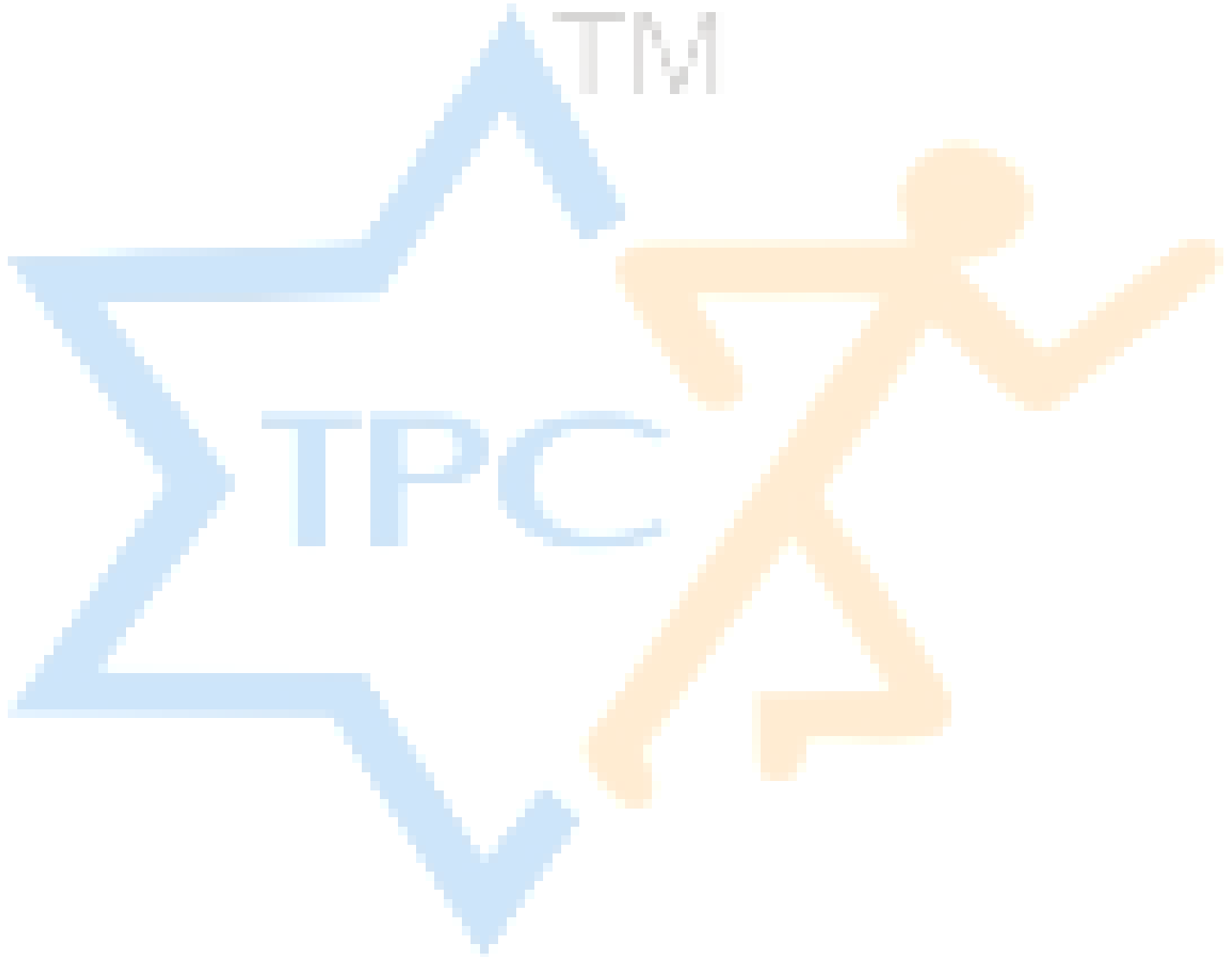


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