Time & Timetables: Hard Practice Paper 7 Answers

Q#	Answer	Explanation
1	C	The minute hand points at 4, which is 120° round from the top. The hour hand has moved a third of the way from 7 to 8, so it is at 7 × 30 + 10 = 220 degrees. The gap between them is 220 − 120 = 100 degrees.
2	D	Service 1 arrives at 11:45 and service 2 at 12:20, both before 13:00. Service 3 arrives at 13:10 and service 4 at 14:15, so both are too late.
3	B	In a leap year February has 29 days, so 29 − 15 = 14 days remain in February. Adding the 15 days of March gives 14 + 15 = 29 days.
4	A	In New York time the flight lands at 04:55, since from 21:40 to 04:55 is 7 hours and 15 minutes. London clocks read 5 hours later, so they show 09:55.
5	B	From 04:45 to 21:20 is 16 hours and 35 minutes of daylight, so the darkness lasts 24 hours minus that, which is 7 hours 25 minutes. The difference is 16 hours 35 minutes take away 7 hours 25 minutes, which is 9 hours 10 minutes.
6	E	A full turn is 360°, so 120° is 120 out of 360, which is a third of the lesson. A third of 90 minutes is 90 ÷ 3 = 30 minutes.
7	D	Five performances have 4 gaps between them, taking 4 × 10 = 40 minutes. That leaves 180 − 40 = 140 minutes of music, so each performance is 140 ÷ 5 = 28 minutes.
8	A	They meet again after a number of minutes that is in all three times tables. The lowest such number is 60, because 10, 12 and 15 all divide into it, so they next leave together at 10:00.
9	E	The job takes 1,350 ÷ 45 = 30 minutes. Counting back from the deadline, from 15:30 to 16:00 is 30 minutes.
10	B	From 09:00 on 28 February to 09:00 on 2 March is two whole days, which is 48 hours, as February has only 28 days that year. The extra stretch to 15:00 adds 6 hours, giving 48 + 6 = 54 hours.

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11	C	The film is 135 minutes long. One fifth of that is 135 ÷ 5 = 27 minutes, so two fifths is 27 × 2 = 54 minutes.
12	E	From 08:15 to 17:20 is 9 hours and 5 minutes, and taking off the 45 minute break leaves 8 hours 20 minutes of work. That is 50 minutes more than the 7 hours 30 minutes he is paid for.
13	C	Midnight is written 00:00 on a 24-hour clock but 12:00 am on a 12-hour one. Five minutes later is therefore 12:05 am, in the very early morning.
14	D	Each showing plus its gap takes 120 minutes, so the showings run 11:00 to 12:35, 13:00 to 14:35, 15:00 to 16:35 and 17:00 to 18:35. The next would finish at 20:35, which is too late, so 4 showings finish in time.
15	A	From 14:20 to 16:00 is 1 hour and 40 minutes, so the meeting needs that long whenever it starts. Beginning 25 minutes late at 14:45, it runs on until 16:25.

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