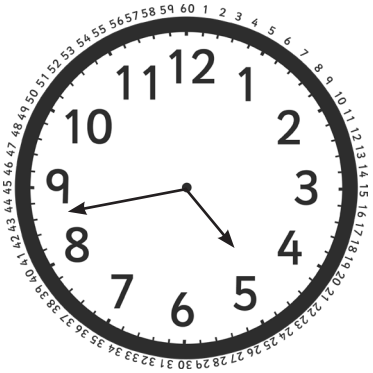
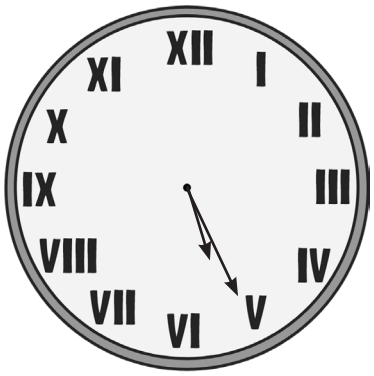
Name: Date:

Key Stage 2 Maths Practice Reasoning:
Solve Problems Converting Between Units of Time

1. Here are 2 clocks. How much faster is the one on the right?





minutes

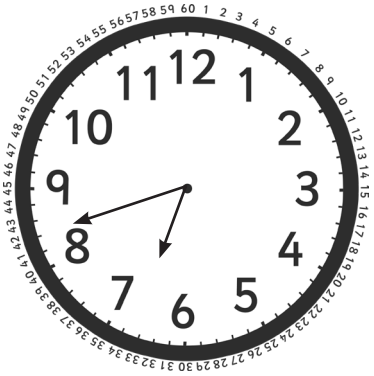
2. Stefan will be 10 on December 14th. His sister Marta was 6 on August 20th. What is the difference in ages between Stefan and Marta, giving the answer in years and months, to the nearest month?

years months

3. In a 4 x 400m relay race, the times for each runner were 50.3 seconds, 49.2 seconds, 51.4 seconds and 49.1 seconds. What was the total time in which the team ran the race, in minutes and seconds?

minutes seconds

4. Darrell needs to catch a train at 19:06. He looks at his watch.



How long has he got before the train is due to depart?

minutes

5. School begins at 8.45 am and ends at 3.20 pm each day.

Calculate how long is the school day in hours and minutes.

hours minutes

6. The date is October 23rd. Keeva's birthday is shown on the calendar. How many days until her birthday?

October

Mo	Tu	We	Th	Fr	Sa	Su
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31	1	2	3	4

November

Mo	Tu	We	Th	Fr	Sa	Su
29	30	31	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	1	2
3	4	5	6	7	8	9

days

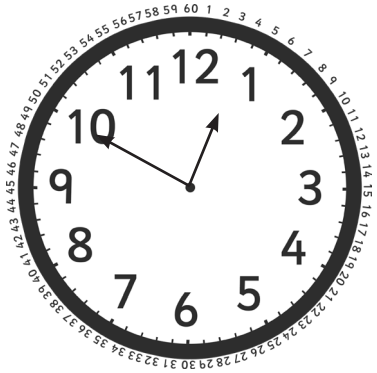
7. Elena and Osman are measuring the time taken for some ice to melt in different places.

Location	Time Taken to Melt
Playground	45 minutes 12 seconds
Classroom	28 minutes 43 seconds
Corridor	33 minutes 27 seconds

In minutes and seconds, what is the difference in the slowest and quickest time taken for the ice to melt.

minutes seconds

8. Tamara's watch is 17 minutes slow. What is the correct time?



9. A film starts at 15:25 and lasts 132 minutes. What time will it finish?

10. In 2017, a school will celebrate the 75th anniversary of it opening. In what year did it open?

11. A football match kicks off at 3 pm, lasts 94 minutes, and has a 15 minute half time. What time does it end?

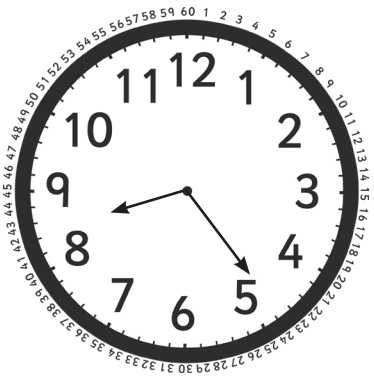
12. A swimmer swims 12 lengths of a swimming pool in 10 minutes and 36 seconds. On average, how long did each length take to swim?

seconds

13. A sleeper train is due to leave at 2325 and arrive the following day at 0717. It leaves 12 minutes late, but catches up time to arrive 3 minutes early. How long did the train take, in hours and minutes.

hours minutes

14. Rachel knows the clock in her kitchen is 7 minutes fast. Here is the clock.



She must be at school by 08:45, and it takes 12 minutes to get to school. How long before she must leave the house?

minutes

15. The world marathon record for women is held by Paula Radcliffe at 2 hours 15 minutes 25 seconds. Assuming a marathon is 40 km, calculate, to the nearest second, how many seconds on average, Paula ran each 100 m.

seconds

Challenge: use a closer approximation of 42 km, calculating to the nearest tenth of a second.

seconds

Answer Sheet: Key Stage 2 Maths Practice Reasoning:
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question	answer	notes
1	43 minutes	Allow 42 - 44.
2	3 years 8 months	
3	3 minutes 20 seconds	
4	24 minutes	
5	6 hours 35 minutes	
6	25 days	do not count Oct 23rd
7	16 minutes and 29 seconds	
8	13:07 or 1:07	
9	17:37 or 5:37	
10	1942	
11	4.49pm or 16:49	
12	53 seconds	
13	7 hours 37 minutes	
14	16 minutes	
15	20 seconds	time taken = 8125, 8125 ÷ 40 = 203.125 seconds/km, which is 20.3125 seconds/100m
challenge.		
	19.3 seconds	