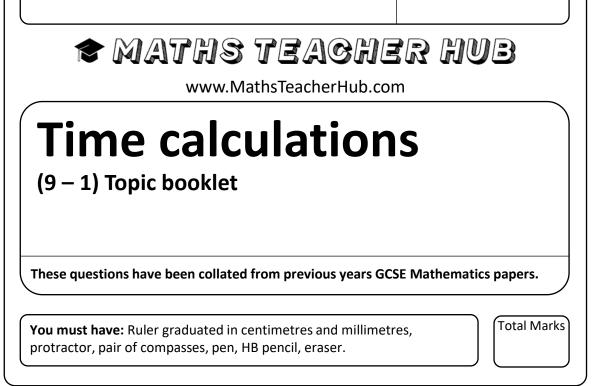
Name

Class



Instructions

•Use **black** ink or ball-point pen.

•Fill in the boxes at the top of this page with your name, centre number and candidate number.

- •Answer all questions.
- Answer the questions in the spaces provided
- there may be more space than you need.

•Diagrams are NOT accurately drawn, unless otherwise indicated.

•You must show all your working out.

•If the question is a **1F** question you are not allowed to use a calculator.

•If the question is a 2F or a 3F question, you may use a calculator to help you answer.

Information

•The marks for each question are shown in brackets

- use this as a guide as to how much time to spend on each question.

Advice

- •Read each question carefully before you start to answer it.
- •Keep an eye on the time.
- •Try to answer every question.
- •Check your answers if you have time at the end.

Answer ALL questions Write your answers in the space provided. You must write down all the stages in your working.				
1 Write 180 minutes in hours.				
Lune 2010 Denor 1E	(Total for Question 1 is 1 mark)			
 June 2019 – Paper 1F 2 How many minutes are there in 3¹/₄ hours? 	(Total for Question 1 is 1 mark)			
Specimen 1 – Paper 1F	(Total for Question 2 is 1 mark)			
3 What is the time 2 hours 40 minutes after 8.05 am?				
November 2021 – Paper 3F	am			
	(Total for Question 3 is 1 mark)			

4	The film starts at 6.45 pm.	
	The film lasts 102 minutes	

What time does the film finish?

November 2017 – Paper 3F

(Total for Question 4 is 2 marks)

(2)

6 Liz is watching a film at the cinema.

The film started at 1430 The film is 105 minutes long.

When the film ends, Liz takes 20 minutes to get to the bus stop.

A bus leaves the bus stop at 1645

Does Liz get to the bus stop in time to get this bus? You must show all your working.

May 2020 – Paper 2F

(Total for Question 6 is 3 marks)

6 Here is part of a train timetable from Swindon to London.

Swindon to London							
Swindon	06 10	06 27	06 41	06 58	07 01	07 17	07 28
Didcot	06 27	06 45	06 58	-	07 18	-	07 45
Reading	06 41	06 59	07 13	07 28	07 33	07 43	08 00
London	0716	07 32	07 44	08 02	08 07	08 14	08 33

(a) How long should the 06 58 train from Swindon take to get to London?

Clare says,

"All these trains take more than one hour to get from Swindon to London."

(b) Is Clare correct? You must give a reason for your answer.

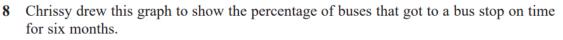
Specimen 2 – Paper 2F

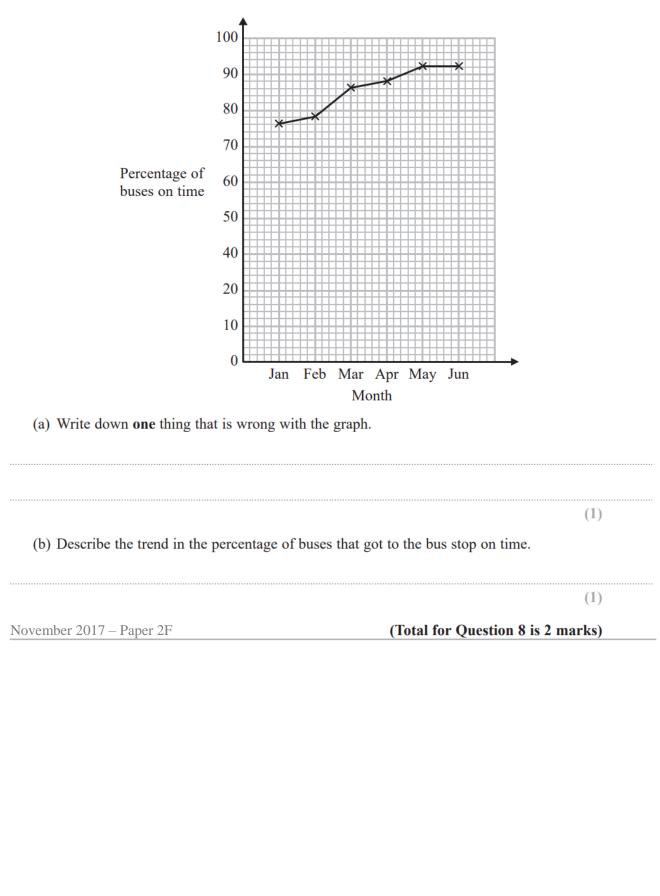
(Total for Question 6 is 2 marks)

(1)

(1)

Work out the difference, in minutes, between 1	hour 25 minutes and $1\frac{1}{4}$ hours.
	minutes
November 2019 – Paper 1F	(Total for Question 7 is 2 marks)





9 This is part of a bus timetable between Bury and Manchester.

Bury	0825	0855	0915	0930	0945	1005
Whitefield	0834	0904	0924	0939	09 54	1014
Heaton Park	0846	0916	0936	0951	1006	1027
Cheetham	0856	0926	0946	1001	1016	1037
Manchester	0905	0935	0955	1010	1025	1048

(a) How many minutes should the 0825 bus take to go from Bury to Manchester?

..... minutes

(1)

Daniel goes from Whitefield to Manchester by bus.

Daniel takes 17 minutes to get from his house to the bus stop in Whitefield. He takes 15 minutes to get from the bus stop in Manchester to work.

Daniel has to get to work by 10 am. He leaves his house at 8.45 am.

(b) Does Daniel get to work by 10 am? You must show all your working.

(3)

9 Davos is a cleaner.

The table shows information about the time it will take him to clean each of four rooms in a house.

Room	Time
Kitchen	2 hours
Sitting room	1 hour 40 minutes
Bedroom	$1\frac{1}{2}$ hours
Bathroom	45 minutes

Davos wants to clean all four rooms in one day. He will have breaks for a total time of 75 minutes.

Davos is going to start cleaning at 9 am.

Will he finish cleaning by 4 pm? You must show all your working.

June 2017 – Paper 3F

10 Here is part of a bus timetable between Wigan and Bolton.

Wigan	0720		0740		07 55
Blackrod	0749		0809		0824
Horwich	0800	0814	0820	0829	0836
Lostock	0809	0820	0829	0837	08 44
Park Road	0814	0834	0841	0848	08 58
Bolton	0832	0851	0858	0905	0915

(a) How many minutes should the 0720 bus take to go from Wigan to Lostock?

...... minutes

Alison goes from Blackrod to Bolton by bus.

One day Alison leaves her house at 0800

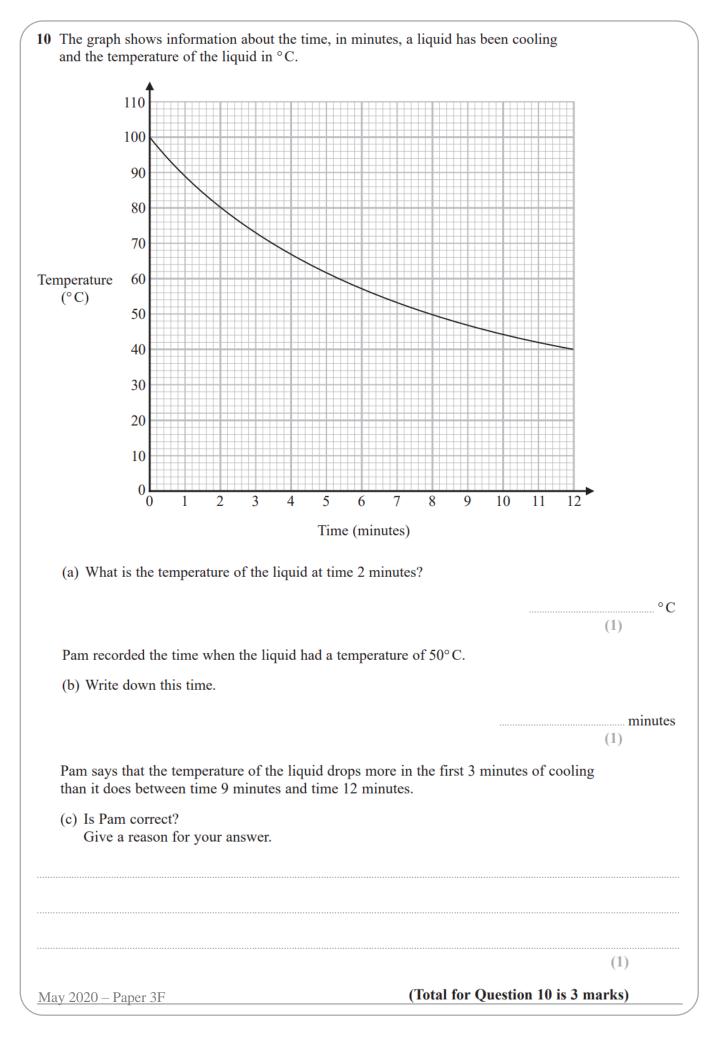
She takes 7 minutes to walk to the bus stop in Blackrod. She takes 15 minutes to walk from the bus stop in Bolton to work.

Alison needs to be at work for 0920

(b) Will Alison get to work for 0920? You must show how you get your answer.

(3)

November 2022 - 2F



 hours		minutes
	(2)	

November 2021 – Paper 3F

(Total for Question 11 is 2 marks)

12 Elena spent 120 minutes at a sports centre.

She played badminton for 50 minutes.

She used the swimming pool for $\frac{1}{6}$ of the 120 minutes.

She used the gym for 20% of the 120 minutes. She then spent the rest of the 120 minutes in the cafe.

(a) Work out the total time, in minutes, that Elena spent in the cafe.

Elena got to the sports centre at 1.30 pm. She had asked her friend to meet her in the cafe at 3 pm.

(b) Did Elena get to the cafe by 3 pm? Give a reason for your answer.

(1)

... minutes

(4)

November 2022 – 1F

(Total for Question 12 is 5 marks)

12 Here is part of a train timet	able.
----------------------------------	-------

Brighton	0722	0729	0732
London	0900	0832	0848

Graham gets to the station in Brighton at 0715

(a) Work out how many minutes he has to wait until 0722

(1) minutes

(b) Work out how long it will take the 0722 train to get to London.

(2)

June 2019 – Paper 2F

(Total for Question 12 is 3 marks)

Sean has drawn a time series graph to show the numbers, in thousands, of visitors to a fun park.

