



# FUNCTIONAL SKILLS MATHEMATICS

AQA | Edexcel | City & Guilds | Open Awards | NCFE | Highfield

Level 1

## Time

### Materials

- You **cannot** use a calculator for **questions** with this symbol.



### Instructions

- Answer **all** questions.
- Answer questions on separate paper.

### Information and Advice

- The marks for each question are shown in brackets – use this as a guide on how long to spend on each question.
- Read each question carefully before you answer it.
- Check you answers.

**Q1** Convert the following amounts of time.

**1(a)** 60 s in minutes [1 mark]

**1(b)** 180 s in minutes [1 mark]

**1(c)** 60 min in hours [1 mark]

**1(d)** 240 min in hours [1 mark]

**1(e)** 300 s in minutes [1 mark]

**1(f)** 3600 s in minutes [1 mark]

**1(g)** 24 hr in days [1 mark]

**1(h)** 72 hr in days [1 mark]

**1(i)** 7200 s in minutes [1 mark]

**1(j)** 168 hr in days [1 mark]

**Q2** Convert the following amounts of time.

**2(a)** 7 days in weeks [1 mark]

**2(b)** 56 days in weeks [1 mark]

**2(c)** 12 months in years [1 mark]

**2(d)** 2 weeks in days [1 mark]

**2(e)** 3 years in months [1 mark]

**2(f)** 4 hr in minutes [1 mark]

**2(g)** 28 min in seconds [1 mark]

**2(h)** 3600 s in hours [1 mark]

**2(i)** 336 hr in weeks [1 mark]

**2(j)** 3 weeks in hours [1 mark]

**Q3** Convert these 12-hour times into 24-hour times.

**3(a)** 3: 45 am [1 mark]

**3(b)** 3: 45 pm [1 mark]

**3(c)** 11: 15 am [1 mark]

**3(d)** 8: 20 pm [1 mark]

**3(e)** 4: 45 pm [1 mark]

**3(f)** 5: 25 am [1 mark]

**3(g)** 12: 40 pm [1 mark]

**3(h)** 12: 10 am [1 mark]

**3(i)** 2: 30 pm [1 mark]

**3(j)** 9: 50 pm [1 mark]

**Q4** Convert these 24-hour times into 12-hour times.

**4(a)** 15:25 [1 mark]

**4(b)** 18:40 [1 mark]

**4(c)** 09:45 [1 mark]

**4(d)** 08:20 [1 mark]

**4(e)** 00:05 [1 mark]

**4(f)** 23:55 [1 mark]

**4(g)** 03:30 [1 mark]

**4(h)** 10:45 [1 mark]

**4(i)** 16:10 [1 mark]

**4(j)** 17:35 [1 mark]

**Q5** Abraham has arranged the following timetable for travelling to Spain.

Leave home	05:00
Arrive at train station	05:20
Train leaves	05:30
Arrive at Manchester airport	07:45
Plane leaves	09:45
Plane arrives in Barcelona airport	11:25
Bus to the resort leaves	12:15
Arrive at the resort	13:30

**5(a)** How long does it take Abraham to get from home to the train station?  
**[2 marks]**

**5(b)** How long does Abraham spend in Barcelona airport?  
**[2 marks]**

**5(c)** How long after boarding the train does Abraham board a bus?  
**[2 marks]**

**5(d)** How long does Abraham's whole journey take?  
**[2 marks]**

**Q6** Eleanor has a number of important meetings to go to, starting at 09:00 am.

**6(a)** Her first meeting is 1 hour and 15 minutes long. If the meeting starts at 9:00 am, what time does it finish?

**[2 marks]**

**6(b)** After her first meeting, she then gets a drink from a coffee shop, which takes 20 minutes. What time is it after her drink?

**[2 marks]**

**6(c)** Eleanor's second meeting lasts 2 hours 30 minutes. What time does it end?

**[2 marks]**

**6(d)** She then takes lunch, which takes 1 hour. What time does she finish lunch?

**[2 marks]**

**6(e)** Her final meeting runs for 2 hours, then she takes 30 minutes to get home. What time does she arrive at home?

**[3 marks]**

- Q7** Kristen is going on a coach trip from her home in Nottingham to London.
- 7(a)** She leaves her house at 5:30 am, and the coach leaves at 5:50 am. If she can walk 100 m in a minute and her house is 1600 m from the coach stop, can she make it?  
**[3 marks]**
- 7(b)** It takes four hours for a coach to get to London from Nottingham. The coach stops at a service station on the way. If Kristen gets to London at 10:20 am, how long does the stop at the service station last?  
**[2 marks]**
- 7(c)** In London, Kristen has a list of things she wants to do. She wants to allow 1 hour for every activity, which includes travel time. If the coach leaves London at 18:00, how many activities can she do in this time?  
**[2 marks]**
- 7(d)** Kristen finds that she takes more time for some activities and less time for others than her scheduled 1 hour. If her tour of Parliament starts at 11:50 am and lasts until 1:10 pm, was this longer or shorter than an 1 hour? By how much?  
**[2 marks]**
- 7(e)** Kristen's final activity is the British Museum. She arrives at 4:45 pm and the museum closes at 17:30. What is the maximum time she could spend in the museum?  
**[1 mark]**
- 7(f)** With heavier traffic in the evening, the coach journey back is expected to take 270 minutes. What is this in hours?  
**[1 mark]**
- 7(g)** The journey actually takes 5 hours, due to a stop at a service station. How long did the stop at the service station last, and what time does the coach return to Nottingham?  
**[2 marks]**
- 7(h)** Given that Kristen starts walking immediately when she gets off the coach, and using figures from part (a), find what time it is when she arrives home.  
**[2 marks]**



- Q8** Tony is making invites for his upcoming wedding, while his partner Den is cooking dinner.
- 8(a)** Den's recipe says he needs 25 minutes to prepare dinner and 35 minutes to cook dinner. How long does the recipe take in total to make? **[1 mark]**
- 8(b)** Each wedding invite takes Tony 10 minutes to make. How many will he have made by the time Den has cooked dinner? **[1 mark]**
- 8(c)** Den's recipe calls for preheating the oven 20 minutes before cooking is to occur. How long after beginning preparation should he preheat the oven? **[1 mark]**
- 8(d)** Den forgets to preheat the oven until 15 minutes into preparation time, so when preparation is done he must wait for the oven to finish preheating.
- 8(d)(i)** How long must he wait once preparation is done? **[1 mark]**
- 8(d)(ii)** How long does dinner take to make overall now? **[1 mark]**
- 8(d)(iii)** How many invites will Tony have been able to make by the time dinner is ready? **[1 mark]**
- 8(e)** Tony and Den both work on invites after dinner. Den works at the same rate as Tony. If there were 25 to make altogether, and they both work from 8:00 pm until it is done, at what time do they finish? **[4 marks]**