

GCSE MATHS • GRADE 1

# MATHS



**MODEL ANSWERS**

**TIME**

**SCORE**

**/185**

**PERCENTAGE**

**%**

**STEM UP**

1 How many days are there in 8 weeks?

$$8 \times 7 = 56$$

56 days

/ 1

2 How many days are there in 5 weeks?

$$5 \times 7 = 35$$

35 days

/ 1

3 How many days are there in 4 weeks?

$$4 \times 7 = 28$$

28 days

/ 1

4 Change 4 days to hours.

$$4 \times 24 = 96$$

96 hours

/ 1

5 Write 2.00 pm in 24-hour clock time.

*Add 12 hours for pm times (after 12 noon)*

14:00

/ 1

6 Change 1 hours to minutes.

$$1 \times 60 = 60$$

60 minutes

/ 1

7 Change 2 days to hours.

$$2 \times 24 = 48$$

48 hours

/ 1

8 Write 3.40 pm in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

15:40

/ 1

9 Change 1.75 hours to minutes.

$$1.75 \times 60 = 105$$

105 minutes

/ 1

10 Change 3 hours 9 minutes to minutes.

$$3 \times 60 + 9 = 189$$

189 minutes

/ 1

11 Write 6.05 pm in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

18:05

/ 1

12 Change 6 hours 12 minutes to minutes.

$$6 \times 60 + 12 = 372$$

372 minutes

/ 1

13 Change 4 hours 39 minutes to minutes.

$$4 \times 60 + 39 = 279$$

279 minutes

/ 1

14 Write 12.35 pm in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

12:35

/ 1

15 Change 5 hours 36 minutes to minutes.

$$5 \times 60 + 36 = 336$$

336 minutes

/ 1

16 Change 1 hour 7 minutes to minutes.

$$1 \times 60 + 7 = 67$$

67 minutes

/ 1

17 Write 6.55 pm in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

18:55

/ 1

18 Change 2 hours 49 minutes to minutes.

$$2 \times 60 + 49 = 169$$

169 minutes

/ 1

19 Change 4.5 hours to minutes.

$$4.5 \times 60 = 270$$

270 minutes

/ 1

20 Write 7.10 pm in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

19:10

/ 1

21 Change 4.75 hours to minutes.

$$4.75 \times 60 = 285$$

285 minutes

/ 1

- 22 Change  $\frac{1}{3}$  of an hour to minutes.

$$60 \div 3 \times 1 = 20$$

20 minutes

/ 1

- 23 Write 1.05 am in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

01:05

/ 1

- 24 How many seconds are there in 5 minutes 34 seconds?

$$5 \times 60 + 34 = 334$$

334 seconds

/ 1

25 How many seconds are there in 3 minutes 51 seconds?

$$3 \times 60 + 51 = 231$$

231 seconds

/ 1

26 Write 4.35 pm in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

16:35

/ 1

27 Change  $\frac{2}{3}$  of an hour to minutes.

$$60 \div 3 \times 2 = 40$$

40 minutes

/ 1

28 Write 11.20 am in 24-hour clock time.

*Add 12 hours for pm times (after 12 noon)*

11:20

/ 1

29 Change  $\frac{1}{6}$  of an hour to minutes.

$$60 \div 6 \times 1 = 10$$

10 minutes

/ 1

30 How many seconds are there in 8 minutes 45 seconds?

$$8 \times 60 + 45 = 525$$

525 seconds

/ 1

31 Write 10.25 pm in 24-hour clock time.

*Add 12 hours for pm times (after 12 noon)*

22:25

/ 1

32 Change  $\frac{1}{2}$  of an hour to minutes.

$$60 \div 2 \times 1 = 30$$

30 minutes

/ 1

33 Write 11.05 am in 24-hour clock time.

*Add 12 hours for pm times (after 12 noon)*

11:05

/ 1

- 34 Change  $\frac{5}{6}$  of an hour to minutes.

$$60 \div 6 \times 5 = 50$$

50 minutes

/ 1

- 35 How many seconds are there in 8 minutes 18 seconds?

$$8 \times 60 + 18 = 498$$

498 seconds

/ 1

- 36 Write 3.35 pm in 24-hour clock time.

Add 12 hours for pm times (after 12 noon)

15:35

/ 1

37 Write 04:50 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

4.50 am

/ 1

38 Change 363 minutes to hours and minutes.

*$363 \div 60 = 6$  remainder 3*

6 hours 3 minutes

/ 1

39 Write 12:00 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

12.00 pm

/ 1

40 Write 02:55 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

2.55 am

/ 1

41 Change 221 minutes to hours and minutes.

*$221 \div 60 = 3$  remainder 41*

3 hours 41 minutes

/ 2

42 Write 13:55 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

1.55 pm

/ 2

43 Write 12:10 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

12.10 pm

2 / 2

44 Change 374 minutes to hours and minutes.

*$374 \div 60 = 6$  remainder 14*

6 hours 14 minutes

2 / 2

45 Write 05:40 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

5.40 am

2 / 2

46 Write 05:55 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

5.55 am

2 / 2

47 Change 157 minutes to hours and minutes.

*$157 \div 60 = 2$  remainder 37*

2 hours 37 minutes

2 / 2

48 A train leaves at 09:20 and arrives at 09:50.

How long does the journey take?

*From 09:20 to 09:50: count on to the next hour, then the minutes*

30 minutes

2 / 2

49 Write 16:40 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

4.40 pm

2 / 2

50 Change 344 minutes to hours and minutes.

*$344 \div 60 = 5$  remainder 44*

5 hours 44 minutes

2 / 2

51 A bus leaves at 1.40 pm and arrives at 2.15 pm.

How long does the journey take?

*Count on from 1.40 pm to 2.15 pm*

35 minutes

2 / 2

52 Write 03:40 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

3.40 am

2 / 2

53 Change 189 minutes to hours and minutes.

*$189 \div 60 = 3$  remainder 9*

3 hours 9 minutes

2 / 2

54 A bus leaves at 4.15 pm and arrives at 4.50 pm.

How long does the journey take?

*Count on from 4.15 pm to 4.50 pm*

35 minutes

2 / 2

55 Write 17:50 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

5.50 pm

2 / 2

56 Change 276 minutes to hours and minutes.

*$276 \div 60 = 4$  remainder 36*

4 hours 36 minutes

2 / 2

57 A bus leaves at 2.10 pm and arrives at 2.55 pm.

How long does the journey take?

*Count on from 2.10 pm to 2.55 pm*

45 minutes

2 / 2

58 Write 11:40 in 12-hour clock time, using am or pm.

*Subtract 12 hours from times after 13:00*

*11.40 am*

/ 2

59 Change 319 minutes to hours and minutes.

*$319 \div 60 = 5$  remainder 19*

*5 hours 19 minutes*

/ 2

60 A bus leaves at 6.15 pm and arrives at 7.15 pm.

How long does the journey take?

*Count on from 6.15 pm to 7.15 pm*

*1 hour*

/ 2

61 A film starts at 16:05.

It lasts for 35 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$16:05 + 35 \text{ minutes} = 16:40$$

16:40

2 / 2

62 Change 7.75 hours to minutes.

$$7.75 \times 60 = 465$$

465 minutes

2 / 2

63 A bus leaves at 7.10 am and arrives at 8.10 am.

How long does the journey take?

Count on from 7.10 am to 8.10 am

1 hour

2 / 2

64 A film starts at 19:50.

It lasts for 40 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$19:50 + 40 \text{ minutes} = 20:30$$

20:30

2 / 2

65 Change 8 hours to minutes.

$$8 \times 60 = 480$$

480 minutes

2 / 2

66 A bus leaves at 4.30 pm and arrives at 5.45 pm.

How long does the journey take?

Count on from 4.30 pm to 5.45 pm

1 hour 15 minutes

2 / 2

67 A film starts at 08:15.

It lasts for 50 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$08:15 + 50 \text{ minutes} = 09:05$$

09:05

2 / 2

68 A train leaves at 11:15 and arrives at 13:50.

How long does the journey take?

*From 11:15 to 13:50: count on to the next hour,  
then the minutes*

2 hours 35 minutes

2 / 2

69 A train leaves at 17:20 and arrives at 20:00.

How long does the journey take?

*From 17:20 to 20:00: count on to the next hour,  
then the minutes*

2 hours 40 minutes

2 / 2

70 A film starts at 17:30.

It lasts for 1 hour 20 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$17:30 + 1 \text{ hour } 20 \text{ minutes} = 18:50$$

18:50

2 / 2

71 A train leaves at 09:55 and arrives at 12:50.

How long does the journey take?

*From 09:55 to 12:50: count on to the next hour,  
then the minutes*

2 hours 55 minutes

2 / 2

72 A bus leaves at 1.00 pm and arrives at 3.05 pm.

How long does the journey take?

*Count on from 1.00 pm to 3.05 pm*

2 hours 5 minutes

2 / 2

- 73 A film starts at 11:45.  
It lasts for 1 hour 20 minutes.  
At what time does the film end? Give your answer in 24-hour clock time.

*11:45 + 1 hour 20 minutes = 13:05*

*13:05*

/ 2

- 74 A bus leaves at 11.50 am and arrives at 2.05 pm.  
How long does the journey take?

*Count on from 11.50 am to 2.05 pm*

*2 hours 15 minutes*

/ 2

- 75 A train leaves at 14:55 and arrives at 18:10.  
How long does the journey take?

*From 14:55 to 18:10: count on to the next hour,  
then the minutes*

*3 hours 15 minutes*

/ 2

76 A film starts at 10:25.

It lasts for 1 hour 35 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$10:25 + 1 \text{ hour } 35 \text{ minutes} = 12:00$$

12:00

3 / 3

77 A bus leaves the station every 40 minutes.

The first bus leaves at 09:50.

At what time does bus number 3 leave? Give your answer in 24-hour clock time.

$$2 \times 40 = 80 \text{ minutes after } 09:50$$

11:10

3 / 3

78 A train leaves at 17:30 and arrives at 21:00.

How long does the journey take?

*From 17:30 to 21:00: count on to the next hour,  
then the minutes*

3 hours 30 minutes

3 / 3

- 79 A film starts at 08:55.  
It lasts for 1 hour 50 minutes.  
At what time does the film end? Give your answer in 24-hour clock time.

$$08:55 + 1 \text{ hour } 50 \text{ minutes} = 10:45$$

10:45

3 / 3

- 80 A bus leaves the station every 20 minutes.  
The first bus leaves at 08:05.  
At what time does bus number 4 leave? Give your answer in 24-hour clock time.

$$3 \times 20 = 60 \text{ minutes after } 08:05$$

09:05

3 / 3

- 81 A bus leaves at 5.15 pm and arrives at 7.55 pm.  
How long does the journey take?

Count on from 5.15 pm to 7.55 pm

2 hours 40 minutes

3 / 3

82 A film starts at 11:40.

It lasts for 2 hours 10 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$11:40 + 2 \text{ hours } 10 \text{ minutes} = 13:50$$

13:50

3 / 3

83 A bus leaves the station every 30 minutes.

The first bus leaves at 08:50.

At what time does bus number 5 leave? Give your answer in 24-hour clock time.

$$4 \times 30 = 120 \text{ minutes after } 08:50$$

10:50

3 / 3

84 A train leaves at 05:15 and arrives at 09:15.

How long does the journey take?

*From 05:15 to 09:15: count on to the next hour,  
then the minutes*

4 hours

3 / 3

85 A film starts at 18:55.

It lasts for 2 hours 20 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$18:55 + 2 \text{ hours } 20 \text{ minutes} = 21:15$$

21:15

3 / 3

86 A bus leaves the station every 30 minutes.

The first bus leaves at 07:30.

At what time does bus number 6 leave? Give your answer in 24-hour clock time.

$$5 \times 30 = 150 \text{ minutes after } 07:30$$

10:00

3 / 3

87 A bus leaves at 6.05 pm and arrives at 9.15 pm.

How long does the journey take?

Count on from 6.05 pm to 9.15 pm

3 hours 10 minutes

3 / 3

88 A film starts at 12:10.

It lasts for 2 hours 20 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$12:10 + 2 \text{ hours } 20 \text{ minutes} = 14:30$$

14:30

3 / 3

89 A bus leaves the station every 40 minutes.

The first bus leaves at 06:05.

At what time does bus number 6 leave? Give your answer in 24-hour clock time.

$$5 \times 40 = 200 \text{ minutes after } 06:05$$

09:25

3 / 3

90 A train leaves at 10:45 and arrives at 15:00.

How long does the journey take?

*From 10:45 to 15:00: count on to the next hour,  
then the minutes*

4 hours 15 minutes

3 / 3

91 A film starts at 16:55.

It lasts for 2 hours 25 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$16:55 + 2 \text{ hours } 25 \text{ minutes} = 19:20$$

19:20

3 / 3

92 A film starts at 08:45.

It lasts for 2 hours 45 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$08:45 + 2 \text{ hours } 45 \text{ minutes} = 11:30$$

11:30

3 / 3

93 A bus leaves at 11.15 am and arrives at 3.35 pm.

How long does the journey take?

Count on from 11.15 am to 3.35 pm

4 hours 20 minutes

3 / 3

94 A film starts at 19:45.

It lasts for 2 hours 50 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$19:45 + 2 \text{ hours } 50 \text{ minutes} = 22:35$$

22:35

3 / 3

95 A film starts at 08:10.

It lasts for 2 hours 55 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$08:10 + 2 \text{ hours } 55 \text{ minutes} = 11:05$$

11:05

3 / 3

96 A bus leaves at 1.55 pm and arrives at 6.50 pm.

How long does the journey take?

Count on from 1.55 pm to 6.50 pm

4 hours 55 minutes

3 / 3

97 A film starts at 09:50.

It lasts for 3 hours.

At what time does the film end? Give your answer in 24-hour clock time.

$$09:50 + 3 \text{ hours} = 12:50$$

12:50

3 / 3

98 A film starts at 16:40.

It lasts for 3 hours 10 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$16:40 + 3 \text{ hours } 10 \text{ minutes} = 19:50$$

19:50

3 / 3

99 A film starts at 19:20.

It lasts for 3 hours 30 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$19:20 + 3 \text{ hours } 30 \text{ minutes} = 22:50$$

22:50

3 / 3

**100** A film starts at 14:35.

It lasts for 3 hours 45 minutes.

At what time does the film end? Give your answer in 24-hour clock time.

$$14:35 + 3 \text{ hours } 45 \text{ minutes} = 18:20$$

18:20

3 / 3