TIME

A 24-HOUR TIME FORMAT

A.1 CONVERTING TO 24-HOUR TIME

Ex 1: Convert 11 : 30 AM to 24-hour time:

☐:☐

Ex 2: Convert 6 : 15 PM to 24-hour time:

☐:☐

Ex 3: Convert 10 : 40 PM to 24-hour time:

☐:☐

Ex 4: Convert 8 : 30 AM to 24-hour time:

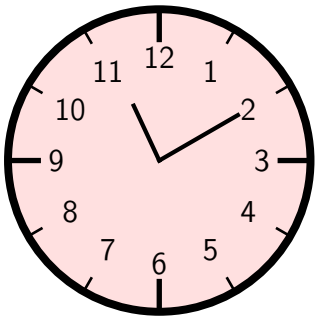
☐:☐

Ex 5: Convert 1 : 20 PM to 24-hour time:

☐:☐

A.2 READING CLOCK TIME IN 24-HOUR FORMAT

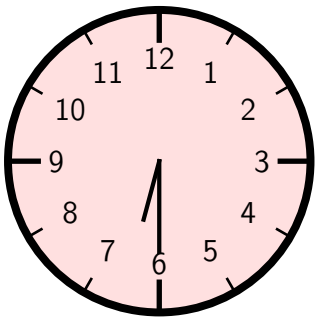
Ex 6: What is this clock time in 24-hour format?



Morning

☐:☐

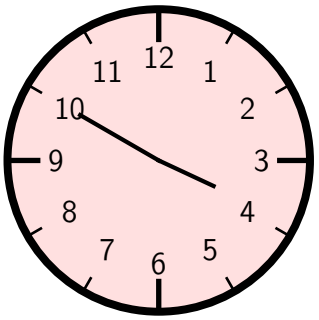
Ex 7: What is this clock time in 24-hour format?



Morning

☐:☐

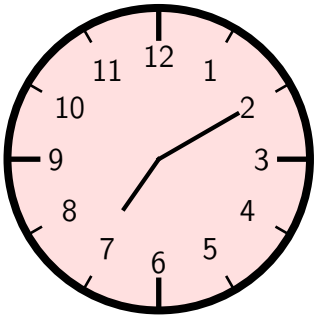
Ex 8: What is this clock time in 24-hour format?



Afternoon

☐:☐

Ex 9: What is this clock time in 24-hour format?



Evening

☐:☐

B UNITS OF TIME

B.1 CHOOSING THE RIGHT UNITS OF TIME

MCQ 10: Which unit would you use to measure the time it takes to clean up the classroom after a project?

Check one answer:

- ☐ seconds
- ☐ minutes
- ☐ hours
- ☐ weeks

MCQ 11: Which unit would you use to measure the time it takes to run 100 meters?

Check one answer:

- ☐ seconds
- ☐ minutes
- ☐ hours
- ☐ years

MCQ 12: Which unit would you use to measure the travel time from Earth to Mars?

Check one answer:

- ☐ seconds
- ☐ minutes

☐ hours

☐ years

MCQ 13: Which unit would you use to measure the time it takes to boil an egg?

Check one answer:

☐ seconds

☐ minutes

☐ hours

☐ days

C CONVERTING UNITS OF TIME

C.1 CONVERTING UNITS OF TIME

Ex 14: Convert 1 hour 45 minutes to minutes:

1 h 45 min = ☐ min

Ex 15: Convert 2 hours 30 minutes to minutes:

2 h 30 min = ☐ min

Ex 16: Convert 3 hours 20 minutes to minutes:

3 h 20 min = ☐ min

Ex 17: Convert 4 hours 15 minutes to minutes:

4 h 15 min = ☐ min

Ex 18: Convert 2 minutes 15 seconds to seconds:

2 min 15 s = ☐ s

Ex 19: Convert 3 minutes 40 seconds to seconds:

3 min 40 s = ☐ s

Ex 20: Convert 5 minutes 25 seconds to seconds:

5 min 25 s = ☐ s

Ex 21: Convert 1 day + 5 hours to hours:

1 d + 5 h = ☐ h

Ex 22: Convert 2 days + 3 hours to hours:

2 d + 3 h = ☐ h

Ex 23: Convert 1 hour to seconds:

1 h = ☐ s

Ex 24: Convert 2 hours to seconds:

2 h = ☐ s

Ex 25: Convert 1 day to minutes:

1 d = ☐ min

C.2 CONVERTING INTO MIXED UNITS

Ex 26: Convert 140 seconds into minutes and seconds:

140 s = ☐ min + ☐ s

Ex 27: Convert 190 seconds into minutes and seconds:

190 s = ☐ min + ☐ s

Ex 28: Convert 395 seconds into minutes and seconds:

395 s = ☐ min + ☐ s

Ex 29: Convert 680 minutes into hours and minutes:

680 min = ☐ h + ☐ min

Ex 30: Convert 800 minutes into hours and minutes:

800 min = ☐ h + ☐ min

Ex 31: Convert 50 hours into days and hours:

50 h = ☐ d + ☐ h

C.3 SOLVING TIME WORD PROBLEMS

Ex 32: Emily has to prepare 42 sandwiches for a party. It takes her 2 minutes to make each sandwich. How long will it take to prepare all the sandwiches?

☐ hour and ☐ minutes

Ex 33: Amir needs to wrap 80 gifts for a community charity event. It takes him 3 minutes to wrap each gift. How long will it take to wrap all the gifts?

☐ hours

Ex 34: Martin needs to write 75 invitations for a wedding. It takes him 3 minutes to write each invitation. How long will it take to write all the invitations?

☐ hours and ☐ minutes

Ex 35: Su needs to prepare 60 cupcakes for a school event. It takes her 5 minutes to prepare each cupcake. How long will it take to prepare all the cupcakes?

☐ hours

D ADDING AND SUBTRACTING TIME

D.1 ADDING TIME

Ex 36: Add 3 hours 25 minutes and 2 hours 15 minutes:

3 h 25 min + 2 h 15 min = ☐ h ☐ min

Ex 37: Add 1 hour 45 minutes and 3 hours 30 minutes:

1 h 45 min + 3 h 30 min = ☐ h ☐ min

Ex 38: Add 2 minutes 35 seconds and 10 minutes 50 seconds:

2 min 35 s + 10 min 50 s = ☐ min ☐ s

Ex 39: Add 5 minutes 20 seconds and 7 minutes 45 seconds:

5 min 20 s + 7 min 45 s = ☐ min ☐ s

D.2 SUBTRACTING TIME

Ex 40: Subtract 3 hours 15 minutes from 5 hours 30 minutes:

5 h 30 min - 3 h 15 min = ☐ h ☐ min

Ex 41: Subtract 2 hours 20 minutes from 7 hours 45 minutes:

7 h 45 min - 2 h 20 min = ☐ h ☐ min

Ex 42: Subtract 50 minutes from 2 hours 10 minutes:

2 h 10 min - 50 min = ☐ h ☐ min

Ex 43: Subtract 1 hour 20 minutes from 3 hours 10 minutes:

3 h 10 min - 1 h 20 min = ☐ h ☐ min

E TIME PROBLEMS

E.1 FINDING TIME DURATIONS

Ex 44: I start playing basketball at 13 : 10 and finish at 15 : 20 in 24-hour format. How long did I play?

☐ h ☐ min

Ex 45: I start a cooking class at 10 : 45 and finish at 12 : 30 in 24-hour format. How long did the class last?

☐ h ☐ min

Ex 46: Albert Einstein was born in 1879. He published his theory of special relativity in 1905. How old was he when he invented this theory?

☐ years

Ex 47: Leonardo da Vinci was born in 1452. He began painting the Mona Lisa in 1503. How old was he when he started this painting?

☐ years

E.2 SOLVING TIME WORD PROBLEMS

Ex 48: Louis starts his homework at 15 : 30. He spends 1 hour and 45 minutes on math. What time does Louis finish his homework in 24-hour format?

☐ : ☐

Ex 49: A train departs from the station at 09 : 40. The journey takes 2 hours and 35 minutes. What time does the train arrive at its destination in 24-hour format?

☐ : ☐

Ex 50: Su goes to the cinema. The movie starts at 09 : 15. The travel time from her house is 35 minutes. What time does Su need to leave in 24-hour format?

☐ : ☐

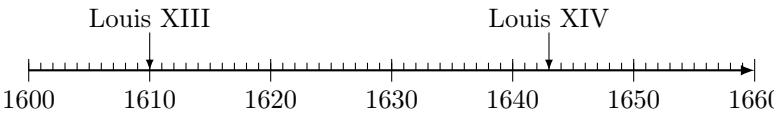
Ex 51: A train arrives at the station at 14 : 50. The trip takes 1 hour and 25 minutes. What time did the train depart in 24-hour format?

☐ : ☐

F TIMELINES

F.1 READING DATES ON A TIMELINE

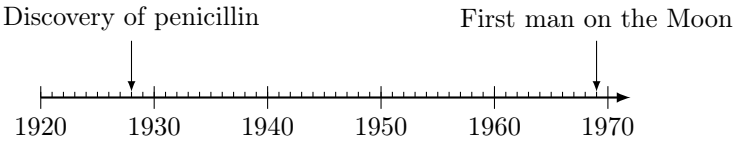
Ex 52: This timeline shows monarchs of France in the 17th century:



When did Louis XIII begin his reign?

In the year ☐

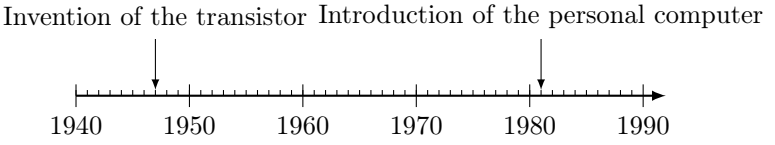
Ex 53: This timeline shows major scientific discoveries in the 20th century:



When was penicillin discovered?

In the year ☐

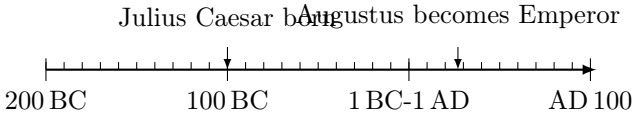
Ex 54: This timeline shows key computing advancements in the 20th century:



When was the transistor invented?

In the year ☐

MCQ 55: This timeline shows key dates in Roman history:

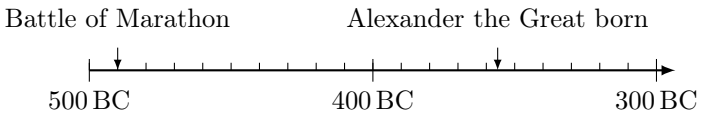


When was Julius Caesar born?

Choose one answer:

- ☐ 200 BC
- ☐ 100 BC
- ☐ 27 AD
- ☐ 500 AD

MCQ 56: This timeline shows key events in ancient Greek history:



When was Alexander the Great born?

Choose one answer:

- ☐ 500 BC
- ☐ 490 BC
- ☐ 356 BC
- ☐ 345 BC