TIME

A UNITS OF TIME

A.1 CHOOSING APPROPRIATE UNITS OF TIME

MCQ 1: Which unit is most appropriate for measuring the time it takes to run a 100-meter sprint?

- ☐ Seconds
- ☐ Minutes
- ☐ Hours
- ☐ Days
- ☐ Weeks
- ☐ Months
- ☐ Years

MCQ 2: Which unit is most appropriate for measuring the time it takes to clean your bedroom?

- ☐ Seconds
- ☐ Minutes
- ☐ Hours
- ☐ Days
- ☐ Weeks
- ☐ Months
- ☐ Years

MCQ 3: Which unit is most appropriate for measuring your age?

- ☐ Seconds
- ☐ Minutes
- ☐ Hours
- ☐ Days
- ☐ Weeks
- ☐ Months
- ☐ Years

MCQ 4: Which unit is most appropriate for measuring the time it takes to watch a movie?

- ☐ Seconds
- ☐ Minutes
- ☐ Hours
- ☐ Days

MCQ 5: Which unit is most appropriate for measuring the length of a family camping trip?

- ☐ Seconds
- ☐ Minutes
- ☐ Hours
- ☐ Days

B CONVERTING UNITS OF TIME

B.1 CONVERTING UNITS OF TIME FROM BIGGER TO SMALLER

Ex 6: Convert 2 hours to minutes:

$2 \text{ h} = \square \text{ min}$

Ex 7: Convert 3 days to hours:

$3 \text{ d} = \square \text{ h}$

Ex 8: Convert 5 minutes to seconds:

$5 \text{ min} = \square \text{ s}$

Ex 9: Convert 2 weeks to days:

$2 \text{ wk} = \square \text{ d}$

B.2 CONVERTING UNITS OF TIME FROM SMALLER TO BIGGER

Ex 10: Convert 120 seconds to minutes:

$120 \text{ s} = \square \text{ min}$

Ex 11: Convert 24 hours to days:

$24 \text{ h} = \square \text{ d}$

Ex 12: Convert 180 minutes to hours:

$180 \text{ min} = \square \text{ h}$

Ex 13: Convert 14 days to weeks:

$14 \text{ d} = \square \text{ wk}$

B.3 WORKING WITH FRACTIONS OF TIME

Ex 14: If you divide an hour into two equal parts, how many minutes are in half an hour?

Half an hour = $\square$ minutes

Ex 15: If you divide an hour into four equal parts, how many minutes are in one quarter of an hour?

One quarter of an hour = $\square$ minutes

Ex 16: If you divide a day into two equal parts, how many hours are in half a day?

Half a day = $\square$ hours

C CONVERTING TO MIXED TIME UNITS

C.1 COMBINING UNITS INTO A SINGLE UNIT

Ex 17: A movie lasts 1 hour and 45 minutes. How many minutes is that in total?

1 h 45 min = ☐ min

Ex 18: You hold your breath for 2 minutes and 20 seconds. How many seconds is that in total?

2 min 20 s = ☐ s

Ex 19: Your soccer practice lasts 1 hour and 30 minutes. How many minutes is that in total?

1 h 30 min = ☐ min

Ex 20: A trail running race lasts 1 day and 5 hours. How many hours is that in total?

1 d 5 h = ☐ h

C.2 SEPARATING A SINGLE UNIT INTO MIXED UNITS

Ex 21: You read a book for 100 minutes. How many hours and minutes is that?

100 min = ☐ h and ☐ min

Ex 22: A race lasts for 140 seconds. How many minutes and seconds is that?

140 s = ☐ min and ☐ s

Ex 23: You study for 150 minutes. How many hours and minutes is that?

150 min = ☐ h and ☐ min

Ex 24: You swim for 200 seconds. How many minutes and seconds is that?

200 s = ☐ min and ☐ s

D 24-HOUR TIME FORMAT

D.1 TELLING TIME THE 24-HOUR WAY

Ex 25: Your favorite show starts at 6:15 PM. What time is that in 24-hour format?

☐:☐

Ex 26: You wake up at 7:45 AM for school. What time is that in 24-hour format?

☐:☐

Ex 27: Your soccer game starts at 4:30 PM. What time is that in 24-hour format?

☐:☐

Ex 28: You eat dinner at 7:00 PM. What time is that in 24-hour format?

☐:☐

D.2 FINDING EVERYDAY TIME FROM 24-HOUR CLOCKS

Ex 29: You have breakfast at 07:30. What time is this in AM/PM format?

☐:☐ ☐ PM ☐ AM

Ex 30: Your art class starts at 14:45. What time is this in AM/PM format?

☐:☐ ☐ AM ☐ PM

Ex 31: You go to bed at 20:00. What time is this in AM/PM format?

☐:☐ ☐ AM ☐ PM

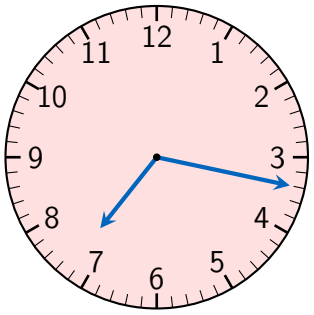
Ex 32: Your music lesson starts at 15:20. What time is this in AM/PM format?

☐:☐ ☐ AM ☐ PM

E READING CLOCK TIMES

E.1 READING CLOCKS

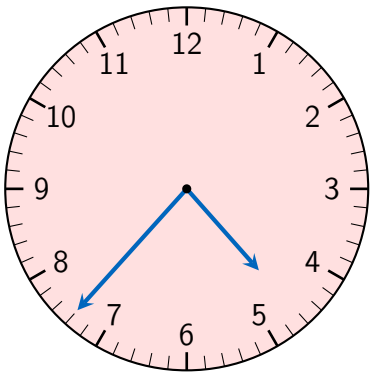
Ex 33: You leave for school at the time shown on this clock. What time is it?



morning

☐:☐ ☐ PM ☐ AM

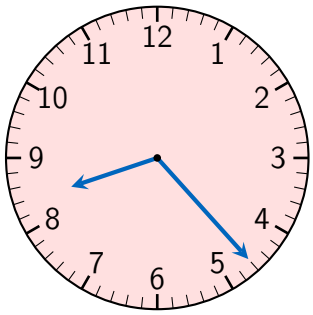
Ex 34: Your soccer practice starts at the time shown on this clock. What time is it?



afternoon

☐ AM
☐ PM

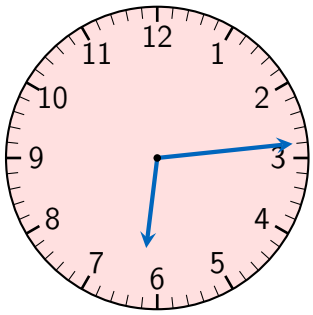
Ex 35: You eat breakfast at the time shown on this clock. What time is it?



morning

☐ PM
☐ AM

Ex 36: You watch a movie at the time shown on this clock. What time is it?

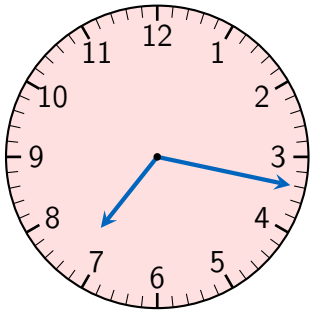


evening

☐ AM
☐ PM

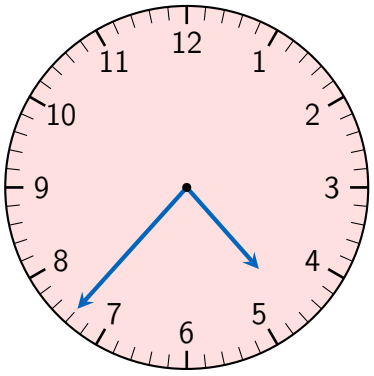
E.2 READING CLOCKS FOR 24-HOUR TIME

Ex 37: You leave for school at the time shown. What is this time in 24-hour format?



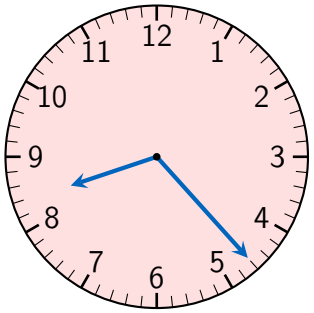
morning

Ex 38: Your soccer practice starts at the time shown. What is this time in 24-hour format?



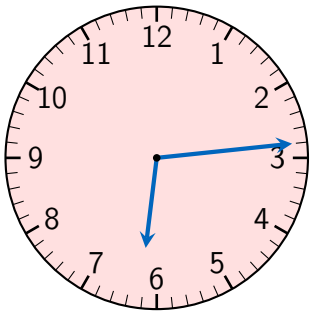
afternoon

Ex 39: You eat breakfast at the time shown. What is this time in 24-hour format?



morning

Ex 40: You watch a movie at the time shown. What is this time in 24-hour format?



evening

F CALCULATING WITH TIME DURATIONS

F.1 ADDING TIME DURATIONS

Ex 41: You watch a movie for 1 hour 20 minutes and do homework for 1 hour 15 minutes.
How long is that altogether?

h min

Ex 42: You ride your bike for 1 hour 25 minutes and play soccer for 1 hour 30 minutes.
How long is that altogether?

h min

Ex 43: You spend 1 hour 15 minutes on Math homework and 55 minutes on Science homework.
How long is that altogether?

☐ h ☐ min

Ex 44: You play a game for 2 hours 30 minutes and read a book for 1 hour 45 minutes.
How long is that altogether?

☐ h ☐ min

F.2 SUBTRACTING TIME DURATIONS

Ex 45: You have 3 hours 40 minutes to finish your chores. You spend 1 hour 25 minutes cleaning your room.
How much time is left?

☐ h ☐ min

Ex 46: You have 2 hours 35 minutes before dinner. You spend 1 hour 20 minutes practicing piano.
How much time is left?

☐ h ☐ min

Ex 47: You have 4 hours 10 minutes to complete your tasks. You spend 2 hours 45 minutes organizing your books.
How much time is left?

☐ h ☐ min

Ex 48: You have 3 hours 15 minutes to work on a project. You spend 1 hour 40 minutes writing a story.
How much time is left?

☐ h ☐ min

Ex 49: You have 4 hours 15 minutes of free time. You play a game for 1 hour 45 minutes.
How much time is left?

☐ h ☐ min

G SOLVING WORD PROBLEMS WITH TIME

G.1 SOLVING WORD PROBLEMS INVOLVING TIME

Ex 50: You work 2 hours 30 minutes on Saturday and 1 hour 20 minutes on Sunday.
How much time do you work altogether?

☐ h ☐ min

Ex 51: A train starts at 8:20 AM and arrives at 1:30 PM.
How long is the train journey?

☐ h ☐ min

Ex 52: Liam has to wrap 12 gift boxes for a charity event. It takes him 3 minutes to wrap each box.
How long will it take to wrap all the gift boxes?

☐ min

Ex 53: A teacher has 36 minutes to grade tests. Each test takes 3 minutes to grade.
How many tests can the teacher grade?

☐ tests

Ex 54: You spend 1 hour 40 minutes mixing cookie dough and 1 hour 25 minutes decorating the cookies.
How long do you spend baking altogether?

☐ h ☐ min

Ex 55: Sofia needs to bake 15 cupcakes for a school event. Each cupcake takes 5 minutes to prepare.
How long will it take to prepare all the cupcakes?

☐ h ☐ min

Ex 56: To plant the vegetables, it takes you 20 hours. You work over 4 days.
How many hours do you work per day?

☐ hours per day

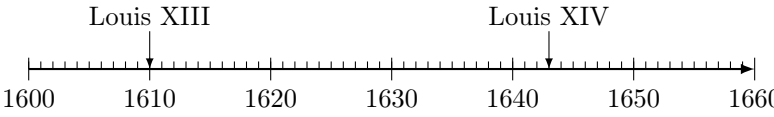
Ex 57: In a library, you begin to work at 8:30 AM. You finish at 10:20 AM.
How much time do you work?

☐ h ☐ min

H TIMELINES

H.1 READING DATES ON A TIMELINE

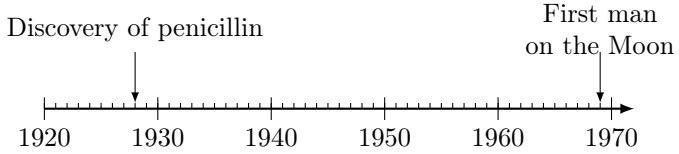
Ex 58: This timeline shows monarchs of France in the 17th century:



When did Louis XIII begin his reign?

In the year ☐

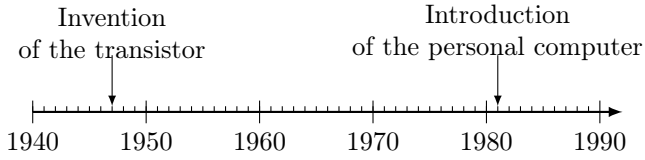
Ex 59: This timeline shows major scientific discoveries in the 20th century:



When was penicillin discovered?

In the year ☐

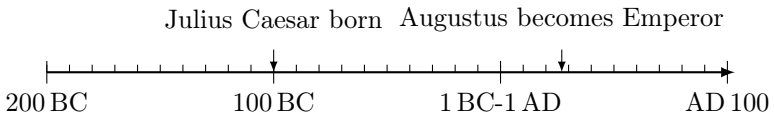
Ex 60: This timeline shows key computing advancements in the 20th century:



When was the transistor invented?

In the year ☐

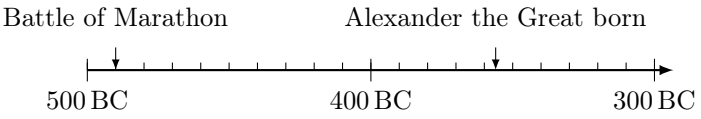
MCQ 61: This timeline shows key dates in Roman history:



When was Julius Caesar born?

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

MCQ 62: This timeline shows key events in ancient Greek history:

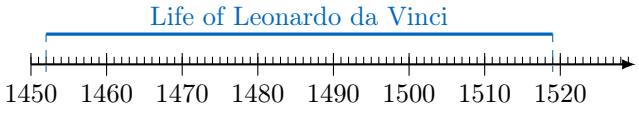


When was Alexander the Great born?

- ☐ 500 BC
- ☐ 490 BC
- ☐ 356 BC
- ☐ 245 BC

H.2 CALCULATING DURATIONS ON A TIMELINE

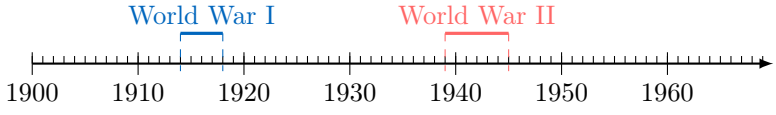
Ex 63: This timeline shows the lifespan of the famous artist Leonardo da Vinci.



Using the timeline, calculate how old Leonardo da Vinci was when he died.

☐ years

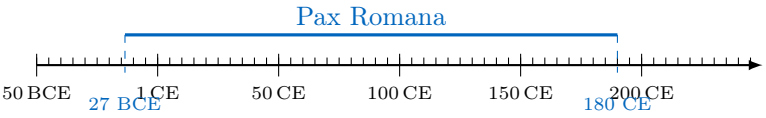
Ex 64: This timeline shows the duration of the First and Second World Wars.



How many years passed between the end of World War I and the beginning of World War II?

☐ years

Ex 65: This timeline shows the period of the Roman Empire's greatest peace and prosperity, known as the Pax Romana.



Using the timeline, calculate the total duration of the Pax Romana.

☐ years