

Lesson 63 MEASURES

Converting between units of time

CURRICULUM ALIGNMENT

MEA.TIM.4

solve and pose practical tasks and problems involving the interpretation and calculation of time.

NUM.OPS.4

build upon, select and make use of a range of operation strategies.

INTERACTIVES

Analog Clock Builder · display

Function Machine · challenge, explore

WHAT THIS LESSON TEACHES

60 seconds make a minute, 60 minutes make an hour, and 24 hours make a day.

→ A film that lasts 2 hours runs for 120 minutes.

→ $3 \text{ hours} \times 60 = 180 \text{ minutes}$.

MODEL THIS ON THE BOARD

CONVERT $2\frac{1}{2}$ HOURS TO MINUTES

- 1 Write 2 hours as $2 \times 60 = 120$ minutes.
- 2 Write the half hour as $\frac{1}{2} \times 60 = 30$ minutes.
- 3 Add the parts: $120 + 30 = 150$ minutes.

ANSWER KEY

Scaffold: visual check on the page

Q1: 300 minutes

Q2: 285 minutes

Q3: 180 minutes

Q4: 3 hours

Q5: 72 hours

Q6: 120 minutes

a) Always — Because $2 \times 60 = 120$.

b) Never — Time does not work that way.

c) Never — A quarter of 60 minutes is 15 minutes.

d) Always — Because $3 \times 24 = 72$.

EXTENSION SHEET · STRETCH ANSWERS

S1: 21:33

S2: 07:31