



SCHOOL
OF MATH



1. READING A DIGITAL CLOCK

A digital clock shows time using numbers.



HOURS

7 means the hour.

MINUTES

45 means the minutes after the hour.



- The colon separates hours and minutes.
- Read the hour first, then the minutes.



9:00 =
nine o'clock



10:15 =
ten fifteen



3:08 =
three oh eight



When the minutes are less than 10, say 'oh'.





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2. UNDERSTANDING HOURS AND MINUTES

1 HOUR = 60 MINUTES

HOUR

The hour tells us which hour of the day it is.



MINUTES

The minutes tell us how far we are past the hour.



ONE COMPLETE HOUR



0 minutes



15 minutes



30 minutes



45 minutes



60 minutes



After 60 minutes, the next hour begins.





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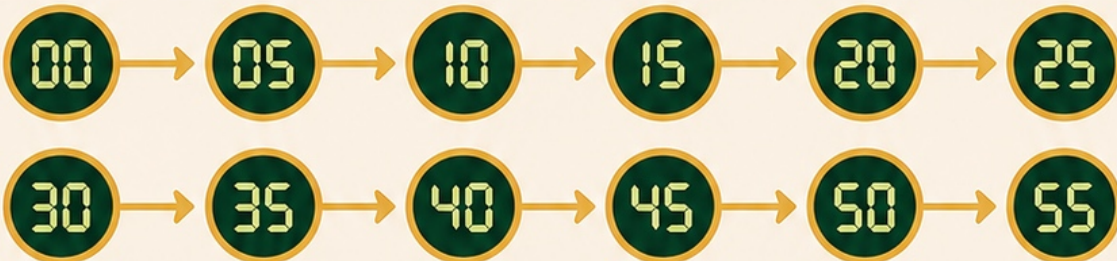


3. TELLING TIME TO THE NEAREST 5 MINUTES

COUNT THE MINUTES BY 5s



25 MINUTES



Each step adds
5 minutes.



The minute number
ends in 0 or 5.



6:05 = six oh five



7:30 = seven thirty



9:55 = nine fifty-five



After :55, the next hour begins at :00.





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4. UNDERSTANDING A.M. AND P.M.

A.M.

From midnight to before noon

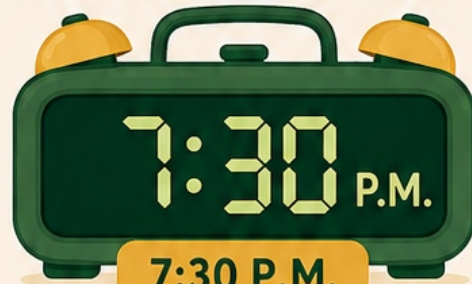


7:30 A.M.

Morning

P.M.

From noon to before midnight



7:30 P.M.

Evening

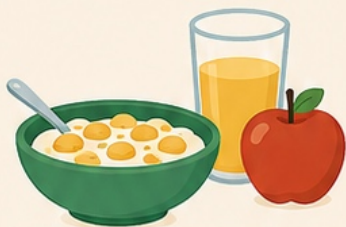
REMEMBER!



12:00 A.M.
= MIDNIGHT



12:00 P.M.
= NOON



8:00 A.M. — Breakfast



3:00 P.M. — After school



9:00 P.M. — Bedtime



A.M. and P.M. tell us which part of the day.





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5. FINDING ELAPSED TIME

Elapsed time is how much time passes from start to finish.

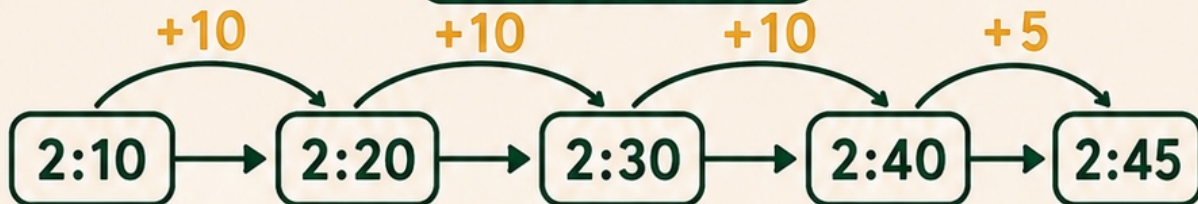
START



END



COUNT FORWARD



$$10 + 10 + 10 + 5 = 35 \text{ minutes}$$

SUBTRACT THE MINUTES

$$45 - 10 = 35 \text{ minutes}$$



When the hour stays the same, subtract the start minutes from the end minutes.



6:25 to 6:50

$$50 - 25 = 25 \text{ minutes}$$



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6. FINDING ELAPSED TIME

Break the time into easy jumps.

START



END



20 min + 1 hr + 1 hr + 15 min

= 2 hours 35 minutes

1. Move to the next full hour.
2. Count the complete hours.
3. Add the remaining minutes.



6:50 to 8:05

10 min + 1 hr + 5 min = 1 hour 15 minutes



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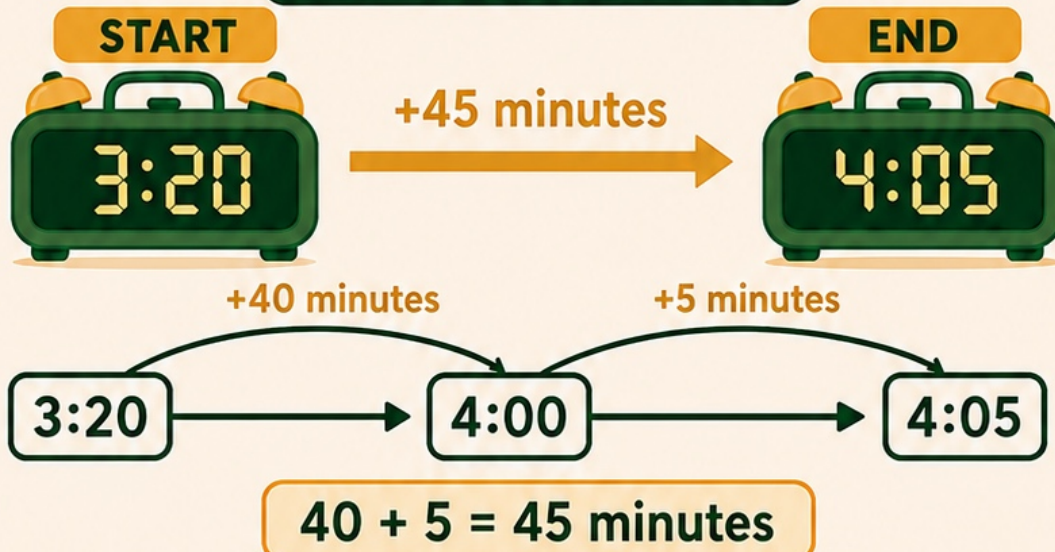
7. FINDING START AND END TIMES



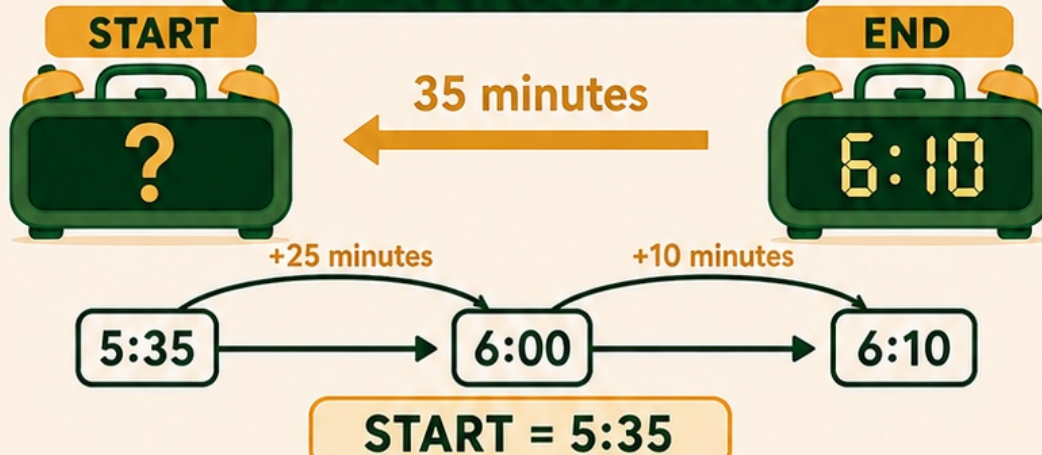
START + ELAPSED TIME = END
END - ELAPSED TIME = START



FIND THE END TIME



FIND THE START TIME



Use counting forward for the end time
and counting backward for the start time.



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8. SOLVING ELAPSED-TIME WORD PROBLEMS

**1**

Find the
start time.

2

Find the
end time.

3

Count the
time between
them.

4

Write the
answer with
units.

WORD PROBLEM

The school play begins at 5:45 P.M. and ends at 7:20 P.M. How long does the play last?

**START****END**

+15 minutes

+1 hour

+20 minutes



$$15 \text{ min} + 1 \text{ hr} + 20 \text{ min} \\ = 1 \text{ hour } 35 \text{ minutes}$$



ANSWER: The play lasts 1 hour 35 minutes.



Check that your answer makes sense.