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Elapsed Time - Year 4

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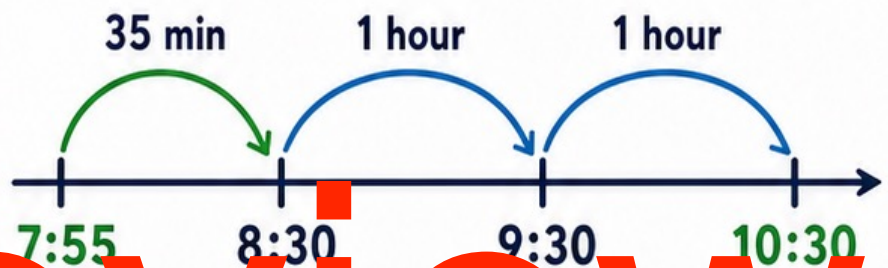
Elapsed Time Strategy Toolkit



Elapsed time is the time that passes between two events.



- 1. Number line:**
jump in friendly chunks



- 2. T-chart:**
list start, jumps and finish.

Start	Jumps	Finish
7:55	• +35 min • +1 hour • +1 hour	10:30

- 3. Z-chart:**
bridge to the next hour, then add.



Check: Does your answer make sense?



Use **hours** and **minutes** together.



Strategy Sort Cards

Cut, sort and solve. Match each problem to a helpful strategy.

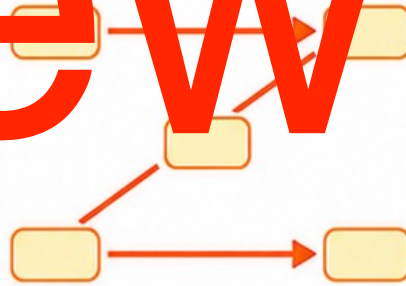
Number line



T-chart

Start	Jump	Finish

Z-chart



Clock jumps

Start
9:15 am.
Add
1 h 40 min.

2:25 pm
to
4:10 pm

Finish
11:20 am.
Elapsed
45 min.

7:35 am
to
9:05 am

Start
1:50 pm.
Add
2 h 25 min.

5:10 pm
to
6:00 pm

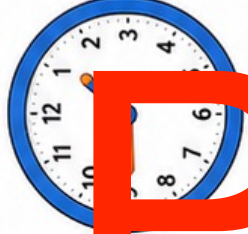
Finish
3:30 pm.
Elapsed
1 h 15 min.

8:48 am
to
10:12 am

Time Trail Board Game

How to play:

Roll. Move. Pick a card.
Solve the elapsed-time
problem.
Correct answer = stay.
Try again = move back 1.





Time Trail Task Cards



Pick a card, solve it, then record your thinking.

1 Start 8:20.
Add 35 min.

2 Start 10:45.
Add 1 h 25 min.

3 2:15 to 3:05

4 4:30 to 6:10

5 Finish 11:00.
Elapsed 50 min.

6 Finish 2:40.
Elapsed 1 h 15 min.

7 7:55 to 9:30

8 Start 5:25.
Add 2 h 20 min.

Card	Strategy	Answer
1		
2		
3		

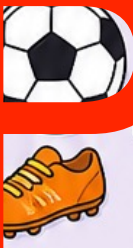


Timetable

Match Challenge



Match each event to its start time, finish time and elapsed time.

EVENT	START AND FINISH TIME	ELAPSED TIME
 STEM Club	9:10 to 10:05	55 min 
 Library Visit	10:30 to 11:45	1 h 15 min 
 Soccer Training	1:20 to 2:50	1 h 30 min 
 Art Workshop	3:15 to 4:00	45 min 



Timetable Match

Recording Mat



Match the cards. Record the start, finish and elapsed time.

Event	Start	Finish	Elapsed Time	Strategy
 STEM Club				
 Library Visit				
 Soccer Training				
 Art Workshop				



Which strategy helped most? Explain why.



Finish-Time Jumps



Name: _____

Date: _____

Add the elapsed time to find the finish time. Show a jump or write your thinking.

1. Start 8:10 am + 25 min = _____



2. Start 9:35 am + 1 h 20 min = _____



3. Start 11:45 am + 50 min = _____



4. Start 1:15 pm + 2 h 10 min = _____



5. Start 3:40 pm + 1 h 5 min = _____



6. Start 5:05 pm + 2 h 45 min = _____





Finish-Time Jumps

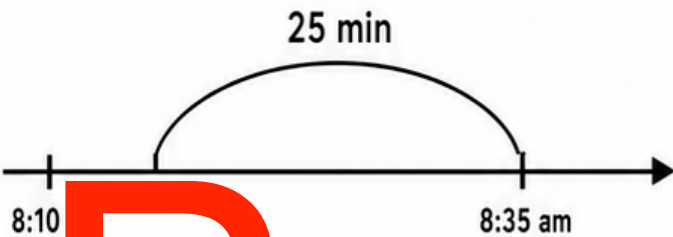


Name: **ANSWERS** _____

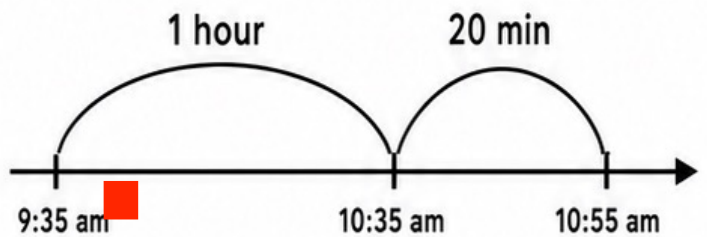
Date: _____

Add the elapsed time to find the finish time. Show a jump or write your thinking.

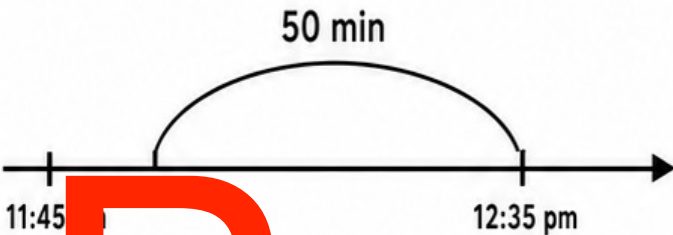
1. Start 8:10 am + 25 min = **8:35 am**



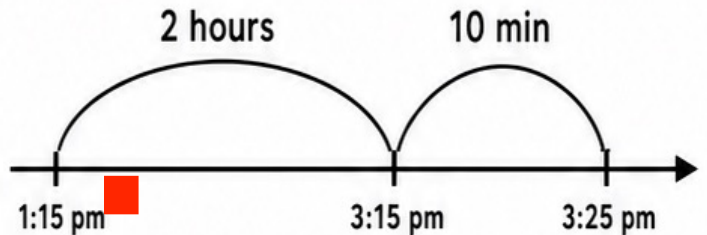
2. Start 9:35 am + 1 h 20 min = **10:55 am**



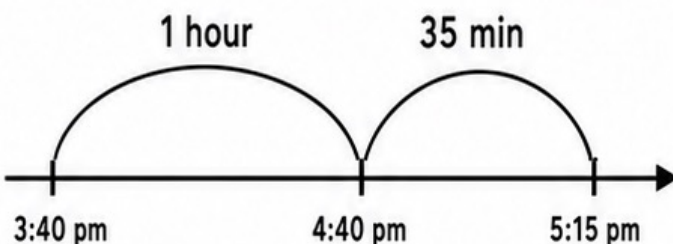
3. Start 11:45 am + 50 min = **12:35 pm**



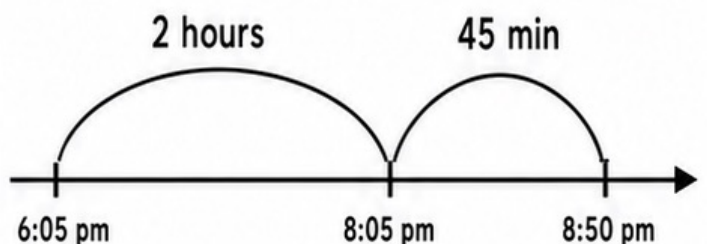
4. Start 1:15 pm + 2 h 10 min = **3:25 pm**



5. Start 3:40 pm + 1 h 35 min = **5:15 pm**



6. Start 6:05 pm + 2 h 45 min = **8:50 pm**





Elapsed Time Number Lines



Name: _____

Date: _____

Find elapsed time between the start and finish times. Use the number line to jump in friendly chunks.

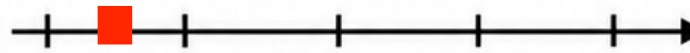
1. 8:20 am to 8:05 am = _____

Start	Finish	Elapsed Time



2. 9:15 am to 9:40 am = _____

Start	Finish	Elapsed Time



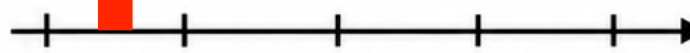
3. 1:50 am to 2:30 pm = _____

Start	Finish	Elapsed Time



4. 1:25 pm to 2:00 pm = _____

Start	Finish	Elapsed Time



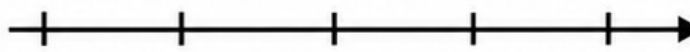
5. 3:45 pm to 4:10 pm = _____

Start	Finish	Elapsed Time



6. 6:30 pm to 7:15 pm = _____

Start	Finish	Elapsed Time





Elapsed Time Number Lines



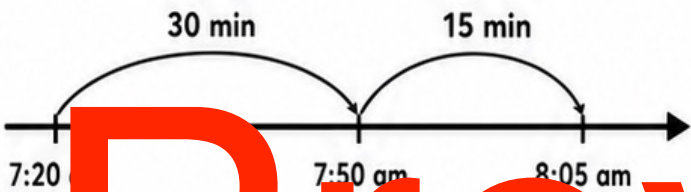
Name: **ANSWERS** _____

Date: _____

Find the elapsed time between the start and finish times. Use the number line to jump in friendly chunks.

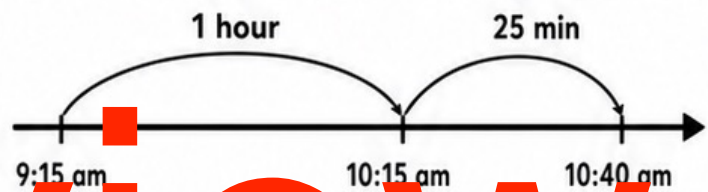
1. 7:20 am to 8:05 am = 45 min

Start	Finish	Elapsed Time
7:20 am	8:05 am	45 min



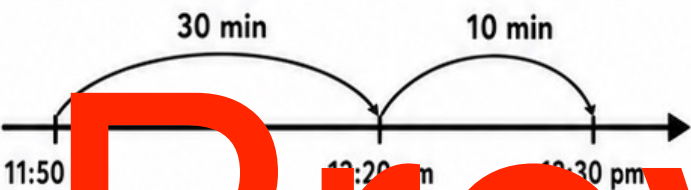
2. 9:15 am to 10:40 am = 1 h 25 min

Start	Finish	Elapsed Time
9:15 am	10:40 am	1 h 25 min



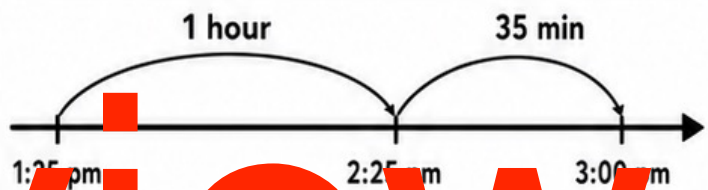
3. 11:50 am to 12:30 pm = 40 min

Start	Finish	Elapsed Time
11:50 am	12:30 pm	40 min



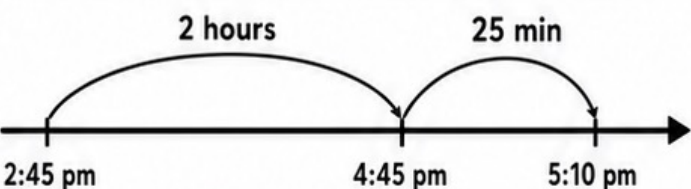
4. 1:25 pm to 3:00 pm = 1 h 35 min

Start	Finish	Elapsed Time
1:25 pm	3:00 pm	1 h 35 min



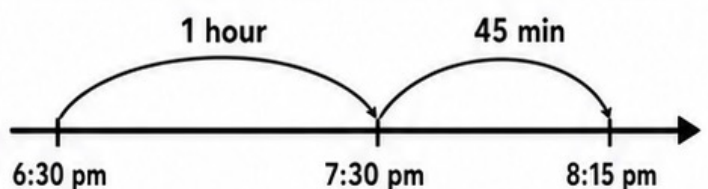
5. 2:45 pm to 5:10 pm = 2 h 25 min

Start	Finish	Elapsed Time
2:45 pm	5:10 pm	2 h 25 min



6. 6:30 pm to 8:15 pm = 1 h 45 min

Start	Finish	Elapsed Time
6:30 pm	8:15 pm	1 h 45 min





Missing Times T-Chart



Name: _____

Date: _____

Use the known information to find the missing start time, finish time or elapsed time.

Start	Elapsed Time	Finish	Missing Answer
8:25 am	35 min	_____	
1:10 pm	1 h 15 min	_____	
12:40 pm	_____	2:05 pm	
3:30 pm	2 h 45 min	_____	
_____	50 min	7:20 pm	
_____	1 h 35 min	9:05 pm	



Missing Times T-Chart



Name: **ANSWERS** _____

Date: _____

Use the known information to find the missing start time, finish time or elapsed time.

Start	Elapsed Time	Finish	Missing Answer
8:25 am	35 min	9:00 am	9:00 am
11:10 am	1 h 15 min	11:25 am	11:25 am
12:40 pm	1 h 25 min	2:05 pm	1 h 25 min
5:30 pm	2 h 45 min	6:15 pm	6:15 pm
6:30 pm	50 min	7:20 pm	6:30 pm
7:30 pm	1 h 35 min	9:05 pm	7:30 pm



Z-Chart Strategy Practice

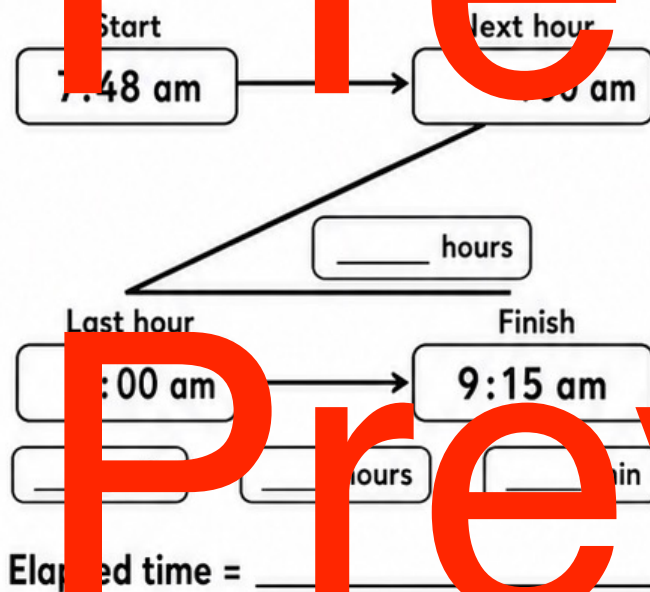


Name: _____

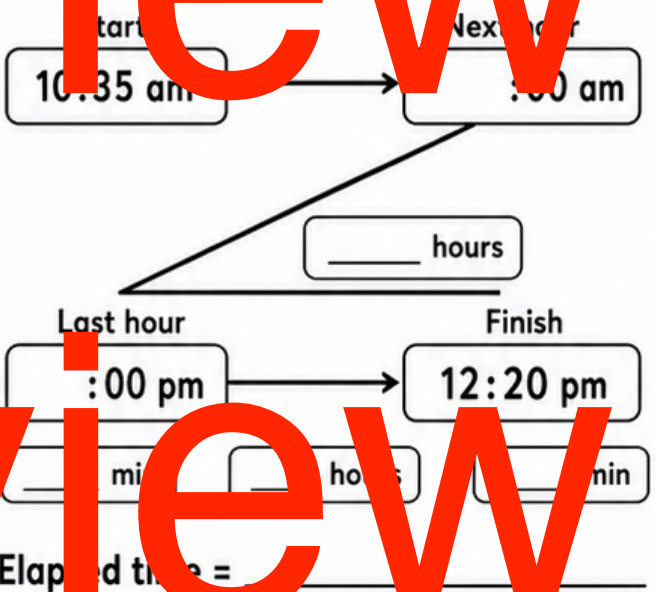
Date: _____

Bridge to the next hour, add whole hours, then add the final minutes.

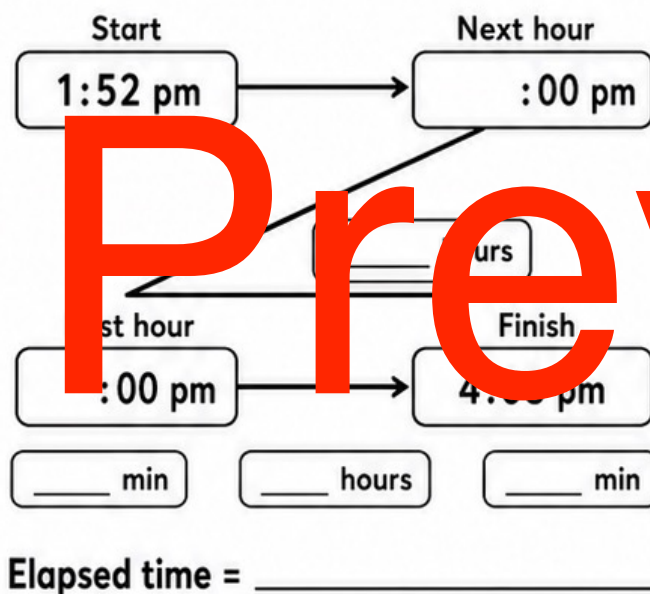
1. 7:48 am to 9:15 am = _____



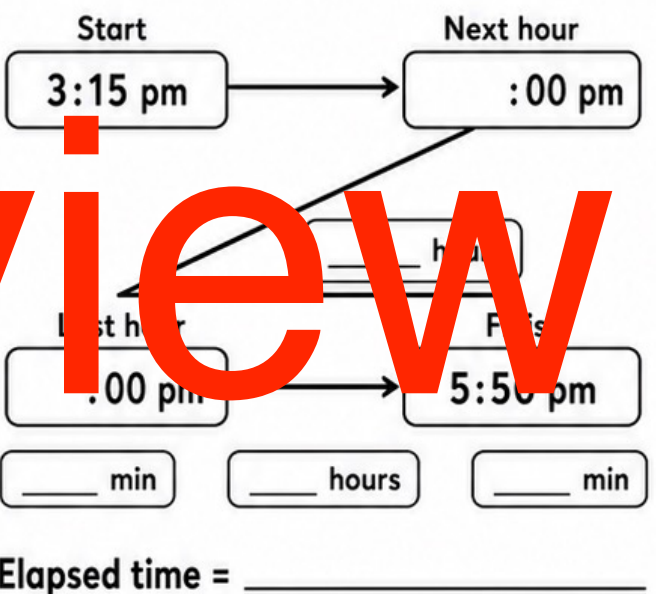
2. 10:35 am to 12:20 pm = _____



3. 1:52 pm to 4:08 pm = _____



4. 3:15 pm to 5:50 pm = _____



Show the jumps you used.



Z-Chart Strategy Practice



Name: **ANSWERS** _____

Date: _____

Beginning the next hour, add whole hour then add the final minutes.

1. 7:48 am to 9:15 am = **1 h 27 min**



Elapsed time = **1 h 27 min**

2. 10:35 am to 12:20 pm = **1 h 45 min**



Elapsed time = **1 h 45 min**

3. 1:52 pm to 4:08 pm = **2 h 16 min**



Elapsed time = **2 h 16 min**

4. 3:15 pm to 5:50 pm = **2 h 35 min**



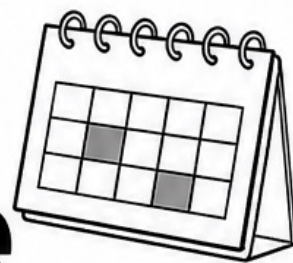
Elapsed time = **2 h 35 min**



Show the jumps you used.



Timetable Elapsed Time



Name: _____

Date: _____

Use the community centre timetable to answer each question.

Community Centre Timetable

Activity	Start	Finish
Chess Club	9:10 am	10:05 am
Cooking	10:25 am	11:40 am
Lunch	12:00 pm	12:25 pm
Robotics	1:15 pm	2:50 pm
Art	3:05 pm	4:00 pm

1. How long is Chess Club? _____

2. How long is Cooking? _____

3. How long is the break between Cooking and lunch? _____

4. How long is Robotics? _____

5. How long is Art? _____

6. How much time passes from the start of Chess Club
to the end of Art? _____



Timetable Elapsed Time



Name: **ANSWERS** _____ Date: _____

Use the community centre timetable to answer each question.

Community Centre Timetable

Activity	Start	Finish
Chess Club	9:10 am	10:05 am
Cooking	10:25 am	11:40 am
Lunch	12:00 pm	12:35 pm
Robotics	1:15 pm	2:50 pm
Art	3:05 pm	4:00 pm

1. How long is Chess Club? **55 min**

2. How long is Cooking? **1 h 15 min**

3. How long is the break between Cooking and lunch? **20 min**

4. How long is Robotics? **1 h 35 min**

5. How long is Art? **55 min**

6. How much time passes from the start of Chess Club
to the end of Art? **6 h 50 min**



Multi-Step Time Problems



Name: _____

Date: _____

Solve each elapsed-time problem. Show your strategy.

1. A bus left at 8:45 am and arrived at 10:10 am.
How long was the trip?

Answer: _____

2. A movie starts at 1:00 pm and runs for 1 h 45 min.
What time does it finish?

Answer: _____

3. Maya starts reading at 4:20 pm. She reads for 35 min. The library closes at 5:00 pm. Does she finish before closing?

Answer: _____

4. Training runs from 3:15 pm to 4:00 pm.
A game runs from 4:15 pm to 5:00 pm.
How much active time is there?

Answer: _____

5. A cake goes into the oven at 11:50 am for 45 min. What time should it come out?

Answer: _____

6. An excursion leaves school at 9:00 am and returns at 2:40 pm.
How long is the excursion?

Answer: _____



Multi-Step Time Problems



Name: **ANSWERS** _____

Date: _____

Solve each elapsed-time problem. Show your strategy.

1. A bus left at 8:45 am and arrived at 10:10 am.
How long was the trip?

1 h 25 min

Answer: **1 h 25 min**

2. A movie starts at 1:00 pm and runs for 45 min.
What time does it finish?

3:15 pm

Answer: **3:15 pm**

3. Maya starts reading at 4:20 pm. She reads for 35 min. The library closes at 5:00 pm. Does she finish before closing?

Yes, at 4:55 pm

Answer: **Yes, at 4:55 pm**

4. Training runs from 3:00 pm to 4:05 pm. A game runs from 4:15 pm to 5:00 pm. How much active time is there?

1 h 35 min

Answer: **1 h 35 min**

5. A cake goes into the oven at 11:50 am for 45 min. What time should it come out?

12:35 pm

Answer: **12:35 pm**

6. An excursion leaves school at 9:05 am and returns at 2:40 pm. How long is the excursion?

5 h 35 min

Answer: **5 h 35 min**



Assessment: Elapsed Time Challenge - Page 1



Name: _____

Date: _____

Score: ____ / 12

A. Find the finish time

1. 7:30 am + 45 min = _____

2. 10:20 am + 1 h 15 min = _____

3. 2:55 pm + 2 h 10 min = _____

Answer: _____

Answer: _____

Answer: _____

B. Find the elapsed time

4. 8:40 am to 9:25 am = _____

5. 11:15 am to 12:50 pm = _____

6. 3:35 pm to 5:05 pm = _____

Answer: _____

Answer: _____

Answer: _____



Show at least two strategies on this page.



Assessment: Elapsed Time Challenge - Page 2



Name: _____

Date: _____

Year 4 Science Day

Event	Start	Finish
Bus to museum	9:10 am	9:40 am
Science show	10:00 am	10:50 am
Workshop	11:15 am	12:30 pm
Lunch	12:30 pm	1:05 pm
Bus back to school	1:20 pm	2:00 pm

7. Bus to museum: how long? _____

8. Science show: how long? _____

9. Break between show and workshop: how long? _____

10. Workshop: how long? _____

11. Bus back to school: how long? _____

12. Leaving school to return home: how long? _____

Explain one strategy you used:



Assessment:

Elapsed Time Challenge - Page 1



Name: **ANSWERS** _____

Date: _____

Score: ____ / 12

A. Find the finish time

1. 7:30 am + 45 min =

8:15 am

2. 10:20 am + 1 h 25 min =

11:45 am

3. 2:55 pm + 2 h 10 min =

5:05 pm

B. Find the elapsed time

4. 8:40 am to 9:25 am =

45 min

5. 11:15 am to 12:50 pm =

1 h 35 min

6. 3:35 pm to 5:05 pm =

1 h 30 min



Show at least two strategies on this page.



Assessment:

Elapsed Time Challenge - Page 2



Name: **ANSWERS** _____

Date: _____

Year 4 Science Day

Event	Start	Finish
Bus to museum	9:00 am	9:45 am
Science show	10:05 am	10:50 am
Workshop	11:15 am	12:30 pm
Lunch	12:30 pm	1:05 pm
Bus back to school	1:20 pm	2:00 pm

7. Bus to museum: how long?

35 min

8. Science show: how long?

45 min

9. Break between show and workshop: how long?

25 min

10. Workshop: how long?

1 h 15 min

11. Bus back to school: how long?

40 min

12. Leaving school to return home: how long?

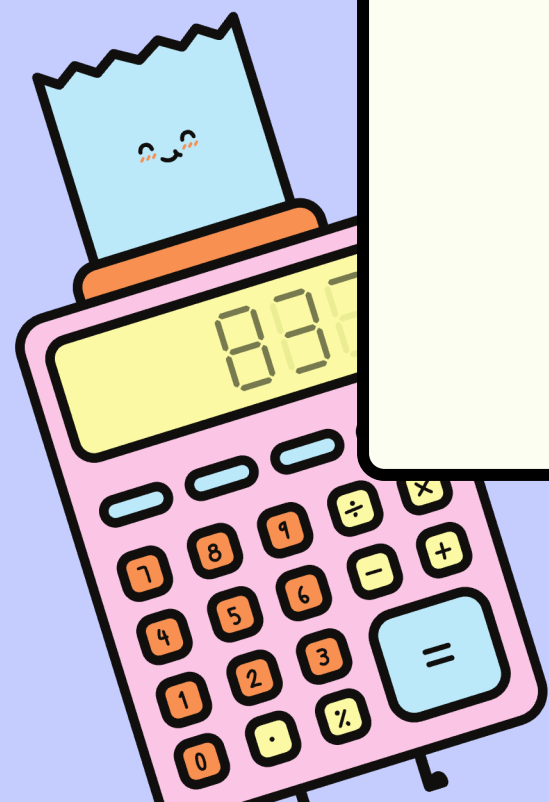
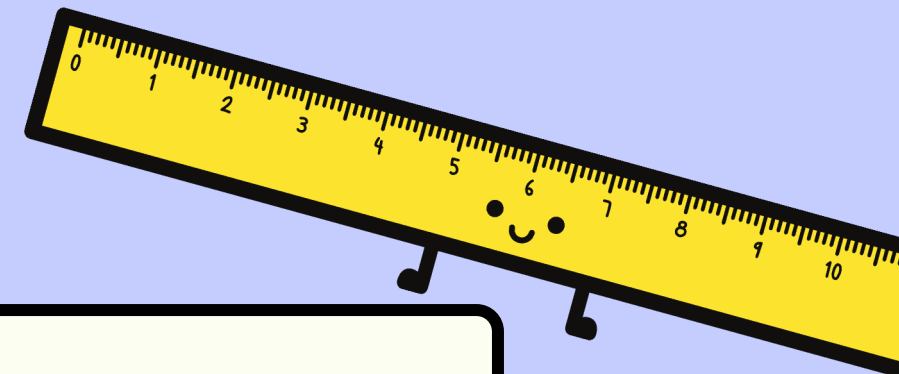
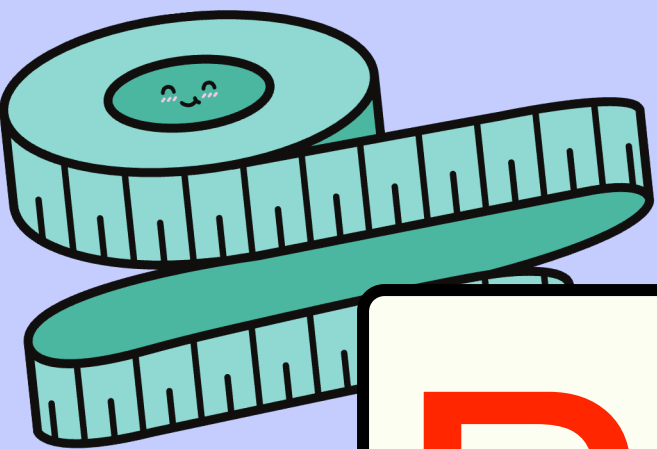
4 h 50 min

Explain one strategy you used:

Number line, T-chart or Z-chart.

Elapsed Time - Year 4 Rubric

Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Reads start and finish times	Needs support	Sometimes accurate	Usually accurate	Accurate and clear	Flexible and explains
Calculates elapsed time	Needs support	Sometimes accurate	Usually accurate	Accurate and clear	Flexible and explains
Finds missing start or finish times	Needs support	Sometimes accurate	Usually accurate	Accurate and clear	Flexible and explains
Uses strategies and records thinking	Needs support	Sometimes accurate	Usually accurate	Accurate and clear	Flexible and explains
Solves real-world time problems	Needs support	Sometimes accurate	Usually accurate	Accurate and clear	Flexible and explains



Preview Preview

Elapsed Time - Year 4

Preview



Learning Goal

Preview Preview

We are learning to calculate elapsed time between events.
We will use number lines, T-charts and Z-charts to solve time problems.

Preview



What Is Elapsed Time?

Preview Preview

Elapsed time is the amount of time that passes between a start time and a finish time.

It answers the question: how long did it take?

Preview



Start, Finish and Duration

Preview Preview

Start time: when the event begins.

Finish time: when the event ends.

Elapsed time: the duration between them.

Preview



Why It Matters Preview Preview

Elapsed time helps us read timetables, plan trips, follow schedules,
cook, train, read and arrive on time.

Preview



Friendly Time Chunks

Preview Preview

Break time into friendly chunks.

Jump to the next hour, add whole hours, then add the remaining minutes.

Preview



Number Line Strategy

Preview Preview

Draw a line from start to finish.

Add jumps above the line.

Add the jumps to find the elapsed time.

Preview



Worked Number Line

Preview Preview

Start: 7:55

Finish: 10:30

Jumps: 35 min + 1 h + 1 h

Elapsed time: 2 h 35 min

Preview



T-Chart Strategy

Preview Preview

Use columns for Start, Jumps and Finish.

List each jump in order so your thinking is easy to check.

Preview



Z-Chart Strategy

Preview Preview

A Z-chart can bridge to the next hour, then jump by whole hours,
then finish with minutes.

It is useful when times cross an hour.

Preview



Find the Finish Time

Preview Preview

If you know the start time and elapsed time, add the elapsed time.

Example: 12:15 plus 2 h 20 min is 2:35.

Preview



Find the Start Time

Preview Preview

If you know the finish time and elapsed time, count backwards.

Example: finish 11:20, elapsed 45 min, start 10:35.

Preview



Crossing Noon or Midnight

Preview Preview

Watch am and pm carefully.

A time can pass from morning to afternoon, or from one day to the next.

Preview



Timetable Problems

Preview Preview

Read the start and finish times in the table.

Find the duration for one event or the time between two events.

Preview



Check Your Answer

Preview Preview

Ask: Is the duration reasonable?

Did I include hours and minutes?

Did I cross an hour, noon or pm?

Preview



Common Mistakes

Preview Preview

Starting from the wrong time.

Forgetting the minutes.

Mixing am and pm.

Writing only a number without units.

Preview



Your Turn

Preview

Choose a strategy.

Show your jumps.

Write the answer using h and min or hours and minutes.

Preview

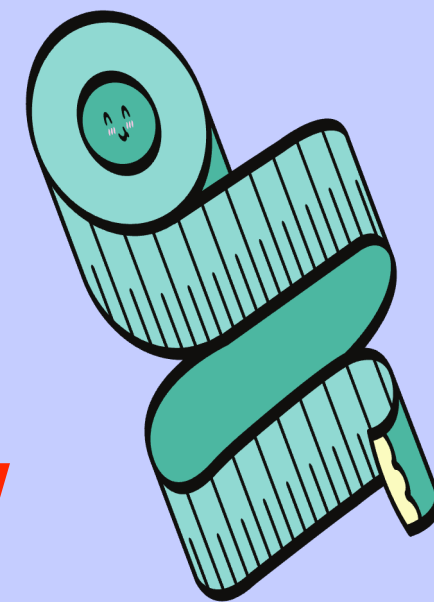
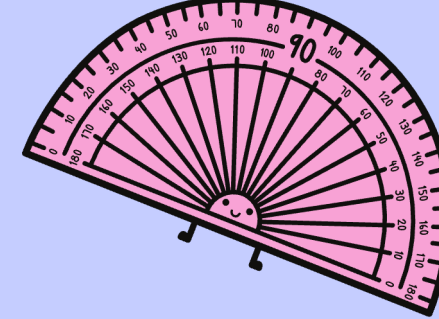
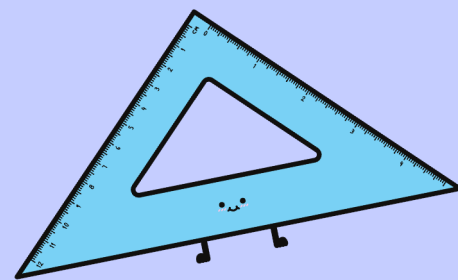
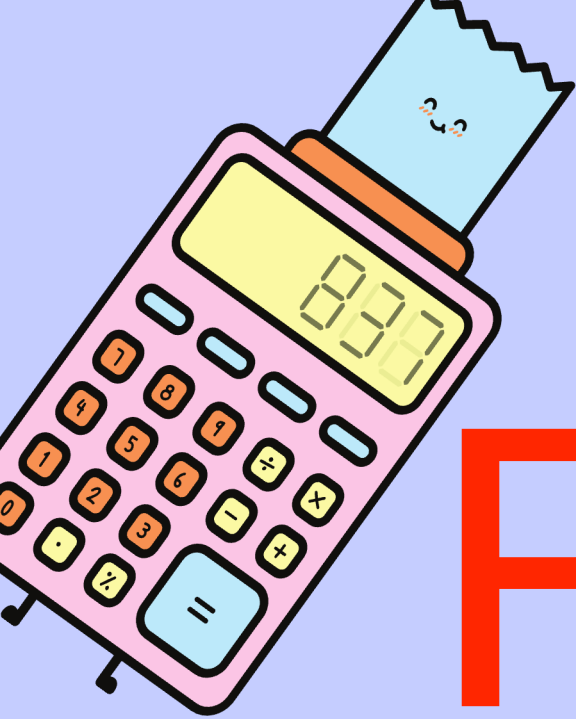


This Week Preview Preview

You will practise finish times, elapsed times, missing times, timetable questions and multi-step time problems.

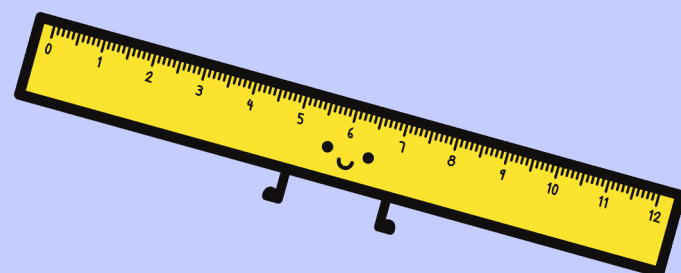
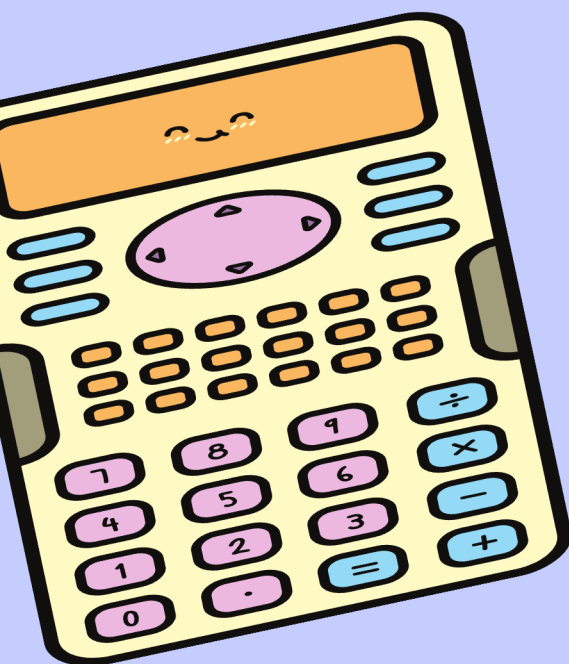
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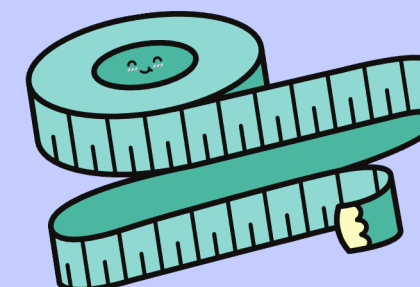
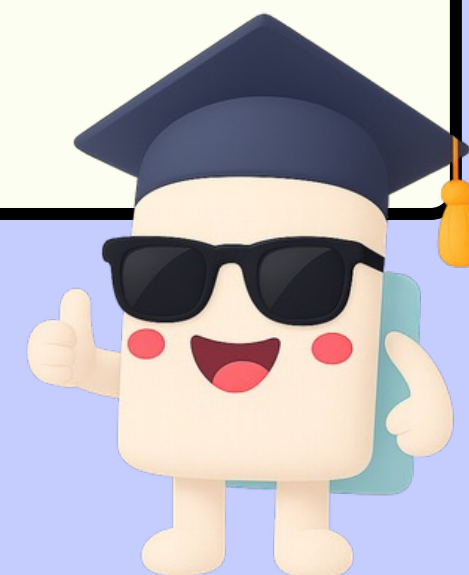


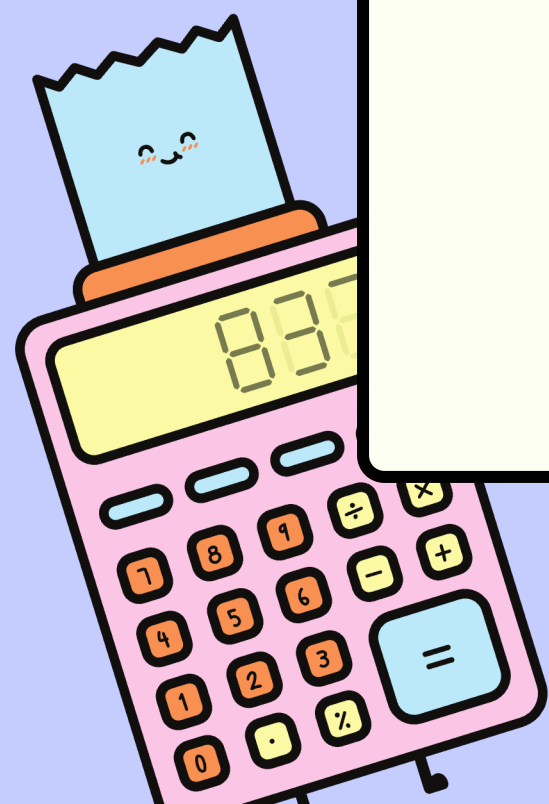
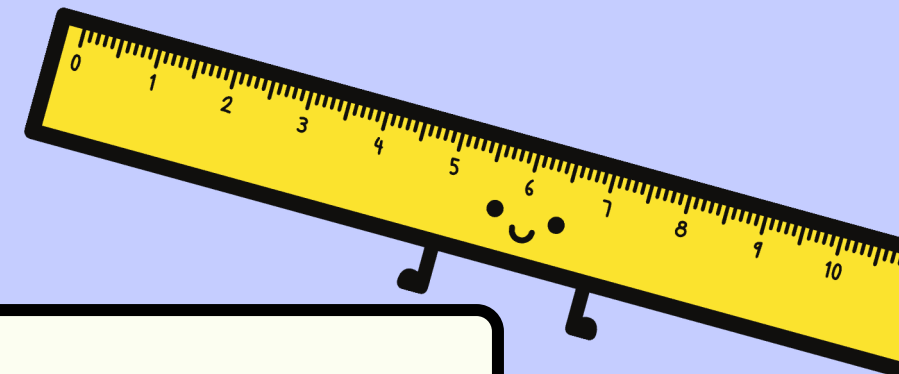
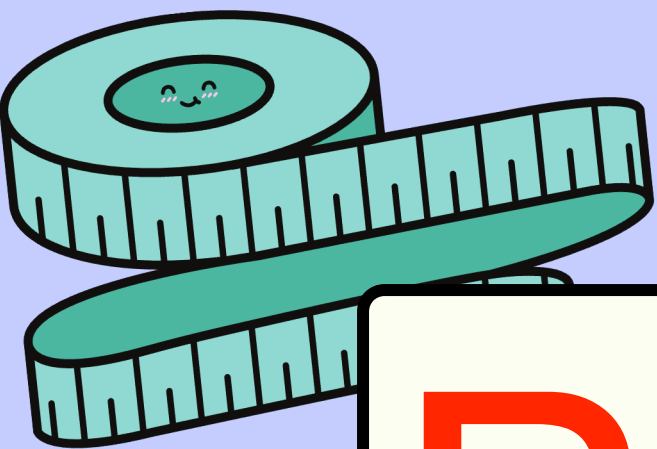
Preview Preview

Well Done!



Preview





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Elapsed Time - Year 4 Quiz

Preview



Question 1

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Multiple choice: What does elapsed time mean?

- A. the start time only
- B. the finish time only
- C. the time between two events
- D. the date of an event

Preview



Answer 1

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C. Elapsed time is the time between two events.

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Question 2

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True or false?

From 7:20 am to 8:05 am is 45 minutes.

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Answer 2

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True. 7:20 to 8:00 is 40 min, then 5 min more.

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Question 3

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Short answer: Start at 9:35 am. Add 1 h 20 min.

What is the finish time?

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Answer 3

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10:55 am.

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Question 4

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Multiple choice: Which jump is best for 10:35 am to 11:00 am?

A. 5 min

B. 15 min

C. 25 min

D. 35 min

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Answer 4

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C. 25 min.

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Question 5

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True or false?

A T-chart can help organise start time, jumps and finish time.

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Answer 5

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True.

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Question 6

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Short answer: How much time passes from 2:45 pm to 5:10 pm?

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Answer 6

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2 h 25 min.

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Question 7

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Multiple choice: A movie starts at 1:30 pm and runs for 1 h 45 min. It finishes at:

A. 2:45 pm

B. 3:00 pm

C. 3:15 pm

D. 3:45 pm

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Answer 7
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C. 3:15 pm.

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Question 8

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True or false?

If a finish time is 7:20 pm and the elapsed time is 50 min, the start time is 6:30 pm.

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Answer 8
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True.

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Question 9

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Short answer: A workshop runs from 11:15 am to 12:30 pm.

How long is the workshop?

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Answer q
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1 h 15 min.

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Question 10

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Multiple choice: Which strategy bridges to the next hour first?

- A. spelling list
- B. Z-chart
- C. place value chart
- D. tally chart

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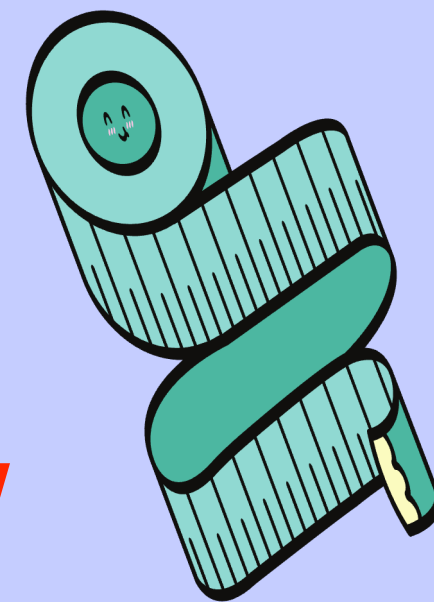
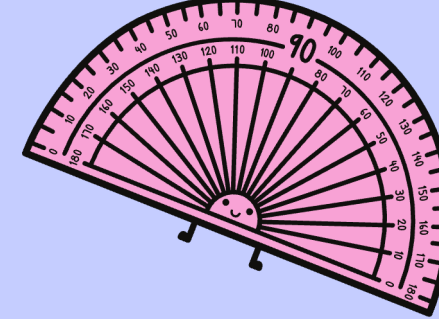
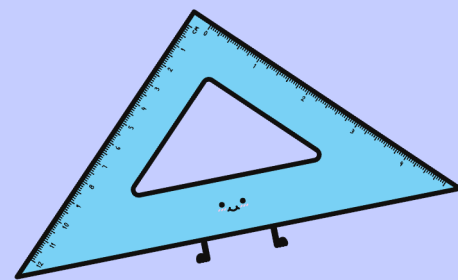
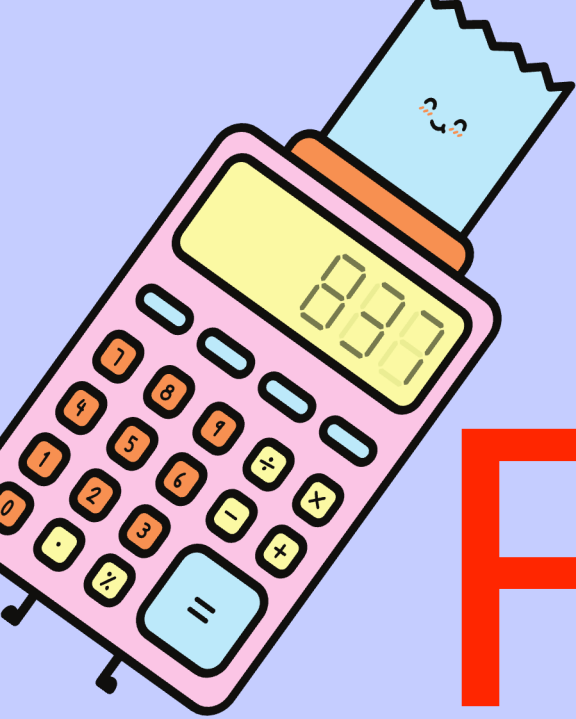
Answer 10

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B. Z-chart.

Preview





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Great Work!

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