

Whole-Number Number Lines

Part A • Build and Read the Number Line

AR-U1-WS7

I can create a whole-number number line and use it to solve addition and subtraction problems.

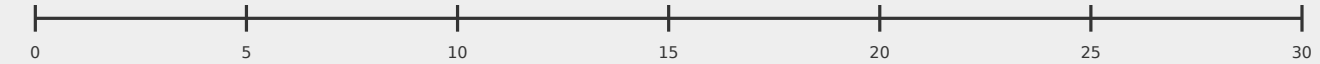
Name: _____

Date: _____

Period: _____

Step 1: Understand Equal Intervals

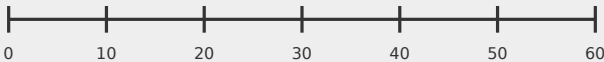
Every space must represent the same amount.



1. Each interval is worth _____. 2. Complete: 20, 25, 30, _____, 40.

Step 2: Build and Check

3. Start at 0. Move 6 intervals of 10.



4. Is this line correct? Circle YES or NO.

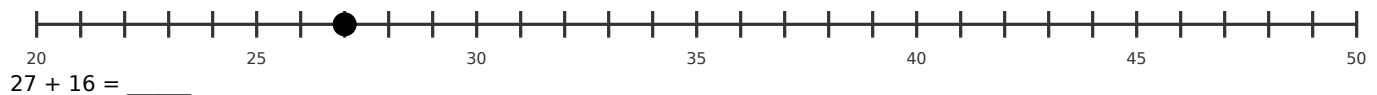


Labels shown: 0, 10, 30, 40.

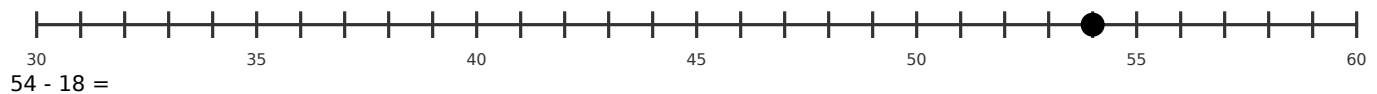
Explain: _____

Step 3: Use Helpful Jumps

5. Solve $27 + 16$. Show a +10 jump and a +6 jump.



6. Solve $54 - 18$. Show a -10 jump and a -8 jump.



Remember: longer jumps must cover more distance on the number line.

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Part A • Use Number Lines in Real Life

AR-U1-WS7

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Step 4: Change the Temperature

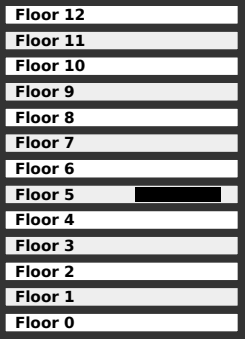


7. Morning temperature: 45°F

It rises 17°F.

New temperature: _____ °F

Equation: _____



8. Hotel Elevator

Start on floor 5.

Go up 6 floors.

Stop on floor: _____

Step 5: Match and Follow the Jumps

9. Which describes 38 - 12 on a number line?

- A. Start 12, move right 38
- B. Start 38, move left 12
- C. Start 38, move right 12

10. A model starts at 32.

Jump +10, then +6.

Landing number: _____

Step 6: Teacher Checkpoint

TEACHER CHECKPOINT

Your teacher will tell you whether to stop here or continue to Part B.

Whole-Number Number Lines

Part B · Apply, Analyze, and Explain

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Step 7: Find and Fix the Mistake

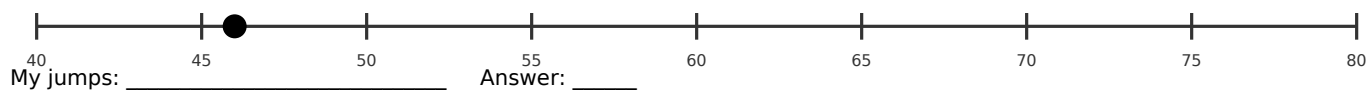
11. Mia solves $71 - 8$ by starting at 8 and moving right to 71.

What is Mia's mistake? _____

Correct answer: _____ Show the correct movement: _____

Step 8: Choose Efficient Jumps

12. Show an efficient way to solve $46 + 27$ using two or three jumps.



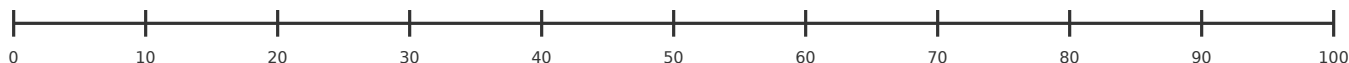
Step 9: Distance and Field Position

13. Highway exits: mile 28 and mile 45.

Distance apart: _____ miles. Show your work.

14. Football: start at yard 35.

Gain 20 yards. New yard line: _____



Step 10: Draw and Connect

15. Draw a number line to show $50 + 24$. Label the start, jumps, and answer.

16. Temperatures, underground floors, and places below sea level can go below 0.

What kind of numbers are needed? _____ (Preview of a later lesson)