## (Grade 7 Paired Rich Math Task) THE ELEVATOR



Heidi runs the elevator in an apartment building. She took Dr. Moresh up six floors from the floor on which he lives. Then Heidi went down five floors, where she picked up Dr. Posamentier. She took him down ten floors to the first-floor lobby. What is the number of the floor on which Dr. Moresh lives?

### Learning Goal:

We are learning to add and subtract integers and use a variety of computational strategies to solve problems involving whole numbers and decimal numbers.

### Success Criteria:

I will...

- Accurately interpret what the problem is about and what I am being asked to solve.
- Recognize the number of steps in the problem that need to be reversed, and what operations or inverse operations are involved to solve the problem.
- Make a plan that specifies starting with the result and working my way backwards.
- Write the steps in reverse order and solve accordingly, showing my calculations and communicating any necessary explanations using math words.
- Check my method to see if it works with +10 performing the steps in reverse order with the inverse operations.

## Find Out

I have to find out what floor Dr. Moresh lives on,
-Heidt took Dr. M up & floors (+6)
- went down 5 floors (-5) - took Dr.P clown to floors (-10) ending at lobby (+1)

# Choose a Strategy



















I will work back-wards. -using pen and paper

Solve It

on the 10th floor Dr. Moreish lives

Look Back

get the right answer so my bads a bit undear but I did however picture in the solving stage is galance out mygoods. I see that my

DR 15

4-Square

Repaid Then sine went down 5 \$10006(-5)

To took Or p down floors (-10) ending oploppy (+1)

Solve It

- Heider took Dr. m UPUS floors (+6) the Morcen lives on we need to find out what thour Find Out steps good i destification of

What strategue did you was backward?
but steps and wash your way backward?

32<u>1</u>







Choose a Strategy





Sent interger addition/Subtraction & (+1) + (HO) - (HO) Chartin to the dealing your with the chart operation with the chart operation with the chart order (+16) = (+17) (106) (+11)+(+5)=(+)c Look Back

Start is the flower (+10) of the (+10) of th Sentences (11+)=(01+)+(11) (917)=(5+)+ (11+)

Find Out

Name: Cother

-Heidi took Dr. Moresth up 6 floors (+6)
-Then she went down 5 floors (-5)
-took Dr. M down 10 floots (-10)
ending up at lobby (+1) We need to find out Dr.

Solve It (+1) + (+10) = (+11) (+11) + (+5) = (+16) (+16) + (-6) = (+16)

-pictures integer sentences.











Choose a Strategy











We added them together and we some out that Dr. Moresh lives Look Back