

PROBLEMS LIKE $23 + \dots = 71$

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I am learning to solve problems like $13 + \dots = 91$ by jumping up by a tidy number on a number line, then jumping back a small number.

PRIOR KNOWLEDGE REQUIRED: To do this I have to be very quick at "jumping up by a tidy number".

1)

Question	Answer	Question	Answer
a) $32 + 20 =$		d) $98 + 30 =$	
b) $63 + 10 =$		e) $56 + 40 =$	
c) $74 + 30 =$		f) $88 + 20 =$	

I also have to be very quick at subtracting a single digit number from a two digit number.

2)

a) $38 - 4 =$		e) $56 - 4 =$	
b) $29 - 3 =$		f) $78 - 2 =$	
c) $98 - 7 =$		g) $59 - 8 =$	
d) $78 - 5 =$		h) $46 - 3 =$	

NEW STRATEGY USING MATERIALS: EXAMPLE: $13 + \dots = 91$. REMEMBER YOU CAN ONLY JUMP IN TIDY NUMBERS E.G. 10, 20, 30, 40 etc.

First jump from 13 to 93. That is a jump of **80** which is a bit high so you need to **jump back 2** to get to 91. $80 - 2 = 78$.

3) Use a full number line to help you answer these questions.

Question	What tidy number did you jump up?	How many did you have to move back?	Answer
a) $34 + \dots = 82$	50	2	48
b) $42 + \dots = 90$			
c) $35 + \dots = 94$			
d) $13 + \dots = 61$			
e) $12 + \dots = 81$			

NEW STRATEGY WITH IMAGING:

4) You may use empty number lines to help you answer these. Look at the "jumping the number line" sheet for help with what this should look like.

Question	What tidy number did you jump up?	How many did you have to move back?	Answer
a) $25 + \dots = 83$			
b) $13 + \dots = 72$			
c) $82 + \dots = 101$			
d) $13 + \dots = 51$			

WORD PROBLEMS USING NUMBER PROPERTIES:

5) Kate has \$42. She is saving for a tennis racquet worth \$90. How much more does she have to save?

