

CHECKING ADDITION AND SUBTRACTION BY ESTIMATION

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I am improving my number sense by learning to make estimations after addition and subtraction calculations.

PRIOR KNOWLEDGE REQUIRED:

1) To be successful at these activities I must be quick and accurate at easier addition and subtraction type problems.

Question	Answer	Question	Answer
a) $17 - 9 =$		e) $3\ 000 - 150 =$	
b) $4 + 8 =$		f) $330 + 170 =$	
c) $16 - 7 =$		g) $4\ 250 - 750 =$	
d) $3 + 15 =$		h) $425 + 575 =$	

NEW STRATEGY USING NUMBER PROPERTIES:

2) In the table below some of the answers are wrong. Circle the answers below that are wrong and explain how you know they must be wrong.

Question	Reason
a) $82 - 8 = 90$	Answer is wrong because if you subtract a number from 82 you must get a smaller number.
b) $56 + 4 = 52$	
c) $70 - 35 = 35$	
d) $42 + 61 = 98$	
e) $456 - 149 = 298$	

3) Go through the table below and estimate what the answers might be then work out the answers in the next column. You may use a calculator to find the actual answer

Question	Estimate	Actual answer
a) $2\ 374 - 997 =$	Around 1 374 (because 997 is nearly 1 000 and $2\ 374 - 1\ 000 = 1\ 374$)	1 377
b) $4\ 963 - 3\ 948 =$		
c) $3\ 123 - 504 =$		
d) $3\ 562 + 4\ 832 =$		

4) Tim's family went to a swimming pool. It costs adults \$5, and children \$2 to swim. In his family there are 2 adults and 3 children. The person at the counter charged them \$25. How did Tim know immediately that this was the wrong amount?

5) What did the person at the counter do wrong?

6) What should they have been charged?