Reproducible Sheets

Mental Math

Grade 8 Mathematics

Learning Target:	
Strategies of Focus:	

Prior Learning	**Answers**
1.	
2.	
3.	
4.	
5.	
6.	

Grade-Level Questions	
7.	
8.	
9.	
10.	

Other Questions	
11.	
12.	

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Mental Math Student Communication Template

1. Students reason through a mental math or estimation problem mentally, without showing their work, and then they put their response directly in the answer section of the template.
2. Students then explain the steps they performed mentally through writing or drawing.
3. Students can then share their approach with another student and document the method used by someone else.
4. Students can then reflect on the best strategy, in their opinion.

Question:	Answer:
Method used to calculate mentally:	**A method used by someone else:**
Preferred method and reason:	

Example

Question: The Oakville Rangers train for 2 hours and 30 minutes each week. How many minutes per week does the team train?	Answer: 150 minutes

Method used to calculate mentally:

$$30 + 30 = 1 \text{ hour}$$
So
$$30 + 30 + 30 + 30 = 2 \text{ hours}$$
$$\text{So } 30 + 30 + 30 + 30 + 30 = 2\frac{1}{2} \text{ hours}$$
$$= 150 \text{ minutes}$$

A method used by someone else:

$$2\,0 \times 60 = 120$$
$$120 + 30 = 150 \text{ minutes}$$

Preferred method and reason:

I prefer the other student's method because it uses fewer steps. My answer was correct, but took longer to get.

Question:	Answer:

Method used to calculate mentally:	A method used by someone else:

Preferred method and reason:

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Method used to calculate mentally:	A method used by someone else:

Preferred method and reason: