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## Multiples of 10

This problem gives you the chance to:

- work with multiples of 10 and explain your reasoning
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This task is about multiples of 10 (10, 20, 30, ...).

1. Adam says, “If you add together two multiples of 10 you get a multiple of 20.”

- a. Give an example to show that this can be true. \_\_\_\_\_
- b. Give an example to show that this is not always true. \_\_\_\_\_

2. Eli says, “If you multiply two multiples of 10 you get a multiple of 100.”

- a. Give an example to show that this can be true. \_\_\_\_\_
- b. Explain why this is always true. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_

3. Dona says, “If you multiply two multiples of 5 you get a multiple of 10.”

- a. Give an example to show that this can be true. \_\_\_\_\_
- b. Give an example to show that this is not always true. \_\_\_\_\_
- c. What do you have to do to make sure the answer will be a multiple of 10?
- \_\_\_\_\_
- \_\_\_\_\_

4. Hannah says, “If you multiply a multiple of 2 by a multiple of 5 you get a multiple of 10.”

Use examples and explanation to show whether this statement is always true, sometimes true or never true.

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<b>Multiples of 10</b>		<b>Rubric</b>	
<ul style="list-style-type: none"> <li>•</li> <li>• The core elements of performance required by this task are:</li> <li>• •work with multiples of 10 and explain your reasoning</li> </ul> <p>Based on these, credit for specific aspects of performance should be assigned as follows</p>		points	section points
1.	<p>Gives correct examples such as: <math>50 + 70 = 120</math></p> <p>Gives correct examples such as: <math>50 + 60 = 110</math></p>	1 1	2
2.a.	Gives correct examples such as: $30 \times 20 = 600$	1	2
b.	Gives correct explanation such as: $30 \times 20 = 3 \times 10 \times 2 \times 10 = 6 \times 100$ which is a multiple of 100.	1	
3.a.	Gives correct examples such as: $20 \times 30 = 600$ <b>and</b>	1 1	2
b.	Gives correct examples such as: $25 \times 25 = 625$		
c.	Gives correct explanation such as: At least one of the multiples of 5 must have a factor of 2.		
4.	<p>Gives correct examples such as: <math>6 \times 15 = 90 = 10 \times 9</math></p> <p><b>and</b></p> <p>States that the statement is always true</p> <p>Gives correct explanation such as: <math>6 \times 15 = 2 \times 3 \times 5 \times 3 = 10 \times 9</math></p>	1 1	2
<b>Total Points</b>			<b>8</b>