

Set D $8 \times 6 = -48$ and $-48 \div 8 = -6$

Set C -48 is equal to 8 groups of how many?

Set B 8 groups of what is equal to -48 ?

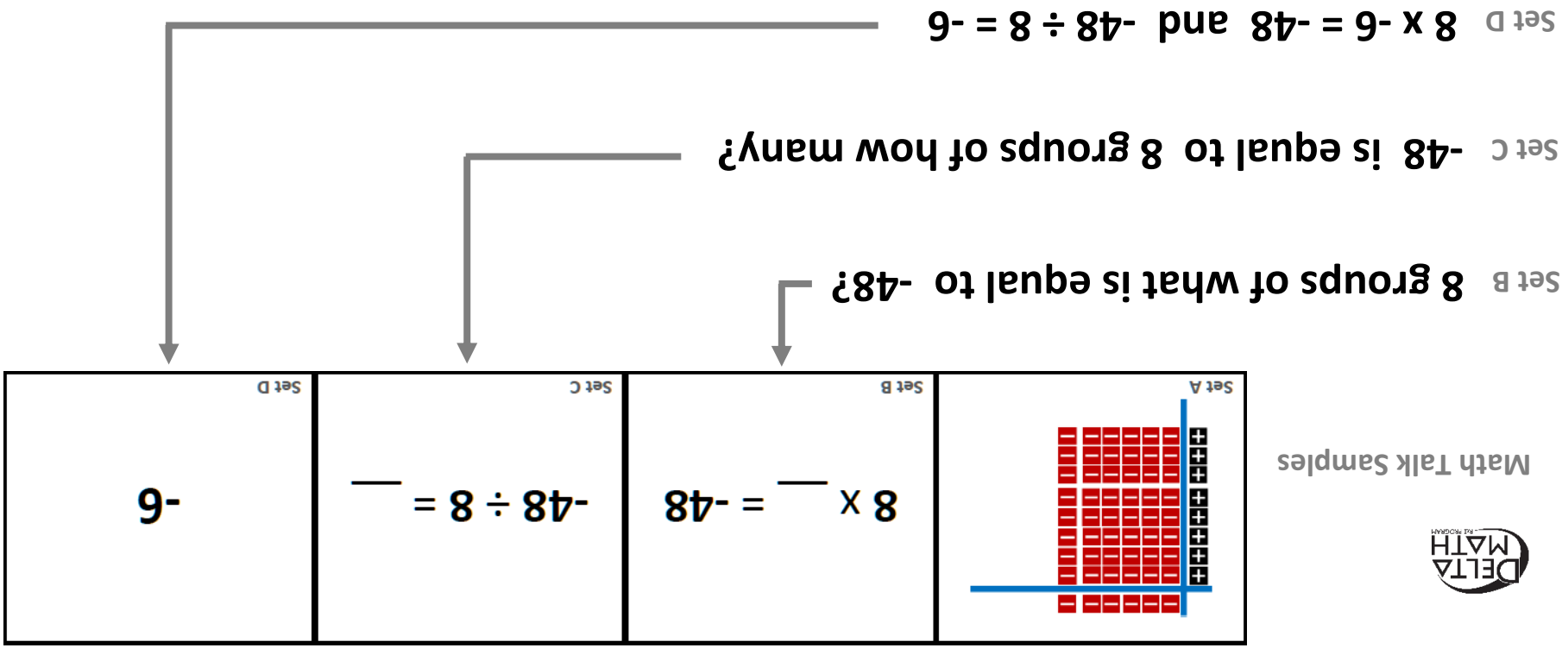
Math Talk Samples



Multiply/Divide Integers: Card Sort

Group size – 2 or 3 students

- Shuffle each **Set A, B, C and D**. (Keep in separate piles)
- Place all **Set A** cards face up in two columns.
- Take turns, choose the top card from **Set B**, place it next to the matching card from **Set A**. Describe each match up.
- Continue to take turns with **Set C** cards. Describe each match up.
- Continue to take turns with **Set D** cards. Describe each match up.



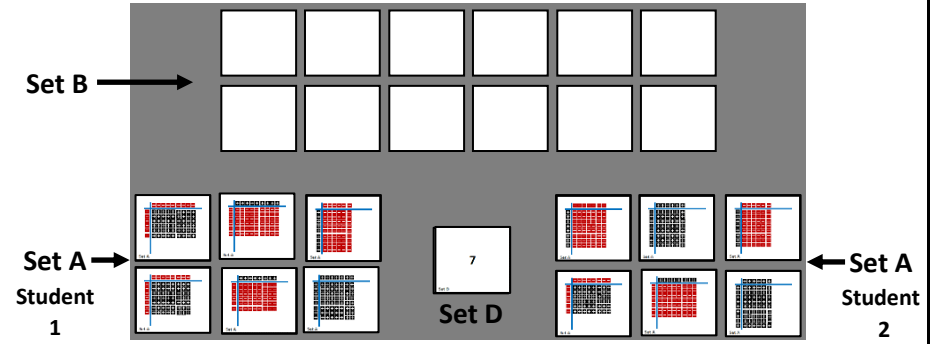
Math Talk Samples



Multiply/Divide Integers: Match-Up #1

Group size – 2 students

- 1 Shuffle **Sets A, B and D**. (Keep in separate piles)
- 2 Place all **Set B** cards face down.
- 3 Place 6 **Set A** cards face up for each player.
- 4 Place all **Set D** cards in one pile for both players.



- 5 Student 1, choose a card from **Set B** and flip it face up.
 - If a card from your **Set A** matches, describe the match and place the **Set B** card on top of it. Then, find and place the matching card from **Set D** on the pair.
 - If a card from your **Set A** does not match, flip the card back over to be face down.
- 6 Student 2 takes a turn. Continue taking turns. The player to make 6 matches wins the game.

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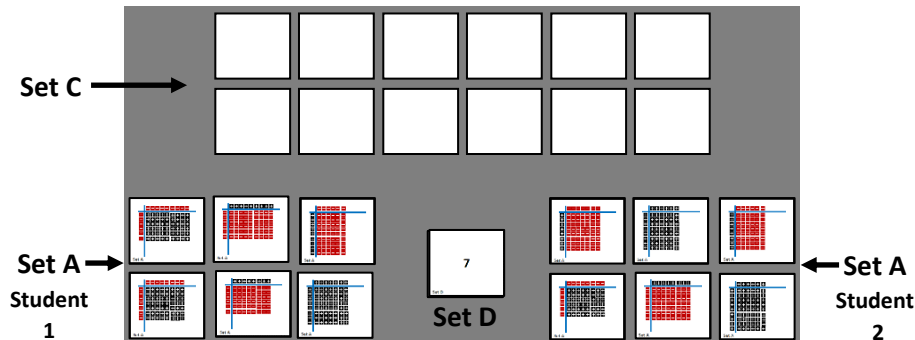
Math Talk Samples



Multiply/Divide Integers: Match-Up #2

Group size – 2 students

- 1 Shuffle **Sets A, C and D**. (Keep in separate piles)
- 2 Place all **Set C** cards face down.
- 3 Place 6 **Set A** cards face up for each player.
- 4 Place all **Set D** cards in one pile for both players.



- 5 Student 1, choose a card from **Set C** and flip it face up.
 - If a card from your **Set A** matches, describe the match and place the **Set C** card on top of it. Then, find and place the matching card from **Set D** on the pair.
 - If a card from your **Set A** does not match, flip the card back over to be face down.
- 6 Student 2 takes a turn. Continue taking turns. The player to make 6 matches wins the game.



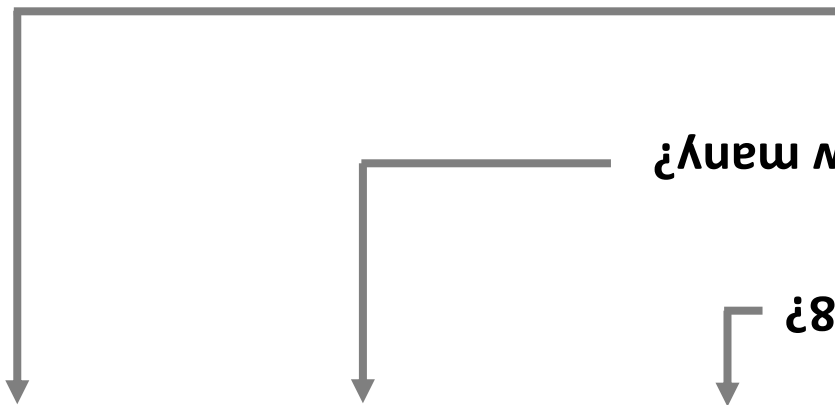
Math Talk Samples

<p>Set D</p> <p>$9 -$</p>	<p>Set C</p> <p>$-48 \div 8 = \underline{\quad}$</p>	<p>Set B</p> <p>$8 \times \underline{\quad} = -48$</p>	<p>Set A</p>
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Set C -48 is equal to 8 groups of how many?

Set B 8 groups of what is equal to -48 ?

Set D $8 \times 8 = -48$ and $-48 \div 8 = -6$



Multiply/Divide Integers: Match-Up #3

Group size – 2 students

- 1 Shuffle **Sets B, C and D**. (Keep in separate piles)
- 2 Place all **Set B** cards face down.
- 3 Place 6 **Set C** cards face up for each player.
- 4 Place all **Set D** cards in one pile for both players.

	<p>Set B</p> <p>→</p>	<table border="1" style="width: 100%; height: 40px;"> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td><td></td><td></td><td></td></tr> </table>															
<p>Set C</p> <p>→</p>	<p>Student 1</p>	<table border="1" style="width: 100%;"> <tr> <td>$48 \div 8 = \underline{\quad}$</td> <td>$54 \div -6 = \underline{\quad}$</td> <td>$-54 \div 9 = \underline{\quad}$</td> <td style="text-align: center; vertical-align: middle;"> <p>Set D</p> <p>9</p> </td> <td>$-56 \div 8 = \underline{\quad}$</td> <td>$-48 \div -6 = \underline{\quad}$</td> <td>$-54 \div -6 = \underline{\quad}$</td> </tr> <tr> <td>$-56 \div -7 = \underline{\quad}$</td> <td>$54 \div 9 = \underline{\quad}$</td> <td>$-48 \div 8 = \underline{\quad}$</td> <td></td> <td>$48 \div -6 = \underline{\quad}$</td> <td>$-54 \div 9 = \underline{\quad}$</td> <td>$56 \div 8 = \underline{\quad}$</td> </tr> </table>	$48 \div 8 = \underline{\quad}$	$54 \div -6 = \underline{\quad}$	$-54 \div 9 = \underline{\quad}$	<p>Set D</p> <p>9</p>	$-56 \div 8 = \underline{\quad}$	$-48 \div -6 = \underline{\quad}$	$-54 \div -6 = \underline{\quad}$	$-56 \div -7 = \underline{\quad}$	$54 \div 9 = \underline{\quad}$	$-48 \div 8 = \underline{\quad}$		$48 \div -6 = \underline{\quad}$	$-54 \div 9 = \underline{\quad}$	$56 \div 8 = \underline{\quad}$	<p>← Set C</p> <p>Student 2</p>
$48 \div 8 = \underline{\quad}$	$54 \div -6 = \underline{\quad}$	$-54 \div 9 = \underline{\quad}$	<p>Set D</p> <p>9</p>	$-56 \div 8 = \underline{\quad}$	$-48 \div -6 = \underline{\quad}$	$-54 \div -6 = \underline{\quad}$											
$-56 \div -7 = \underline{\quad}$	$54 \div 9 = \underline{\quad}$	$-48 \div 8 = \underline{\quad}$		$48 \div -6 = \underline{\quad}$	$-54 \div 9 = \underline{\quad}$	$56 \div 8 = \underline{\quad}$											

- 5 Student 1, choose a card from **Set B** and flip it face up.
 - If a card from your **Set C** matches, describe the match and place the **Set B** card on top of it. Then, find and place the matching card from **Set D** on the pair.
 - If a card from your **Set C** does not match, flip the card back over to be face down.
- 6 Student 2 takes a turn. Continue taking turns. The player to make 6 matches wins the game.

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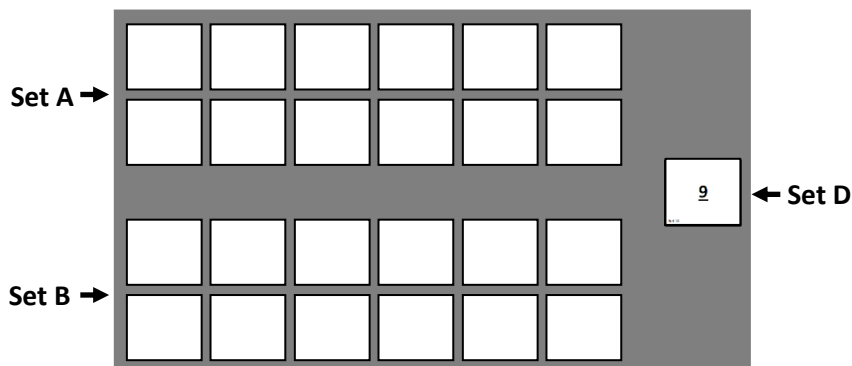
Math Talk Samples



Multiply/Divide Integers: Concentration #1

Group Size – 2 or 3 Students

- 1 Shuffle **Sets A, B and D**. (Keep in separate piles)
- 2 Place all **Set A** cards and all **Set B** cards face down.
- 3 Place all **Set D** cards in one pile for both players.



- 4 Student 1, choose a card from **Set A** and flip it face up. Then, choose a card from **Set B** and flip it face up.
 - If the cards match, describe the match and keep both cards. Then, find the matching card from **Set D** and add it to the pair.
 - If the cards do not match, flip both cards back over.
- 5 Student 2 takes a turn. Continue taking turns. The player with the most matches wins the game.

Set D $8 \times 6 = -48$ and $-48 \div 8 = -6$

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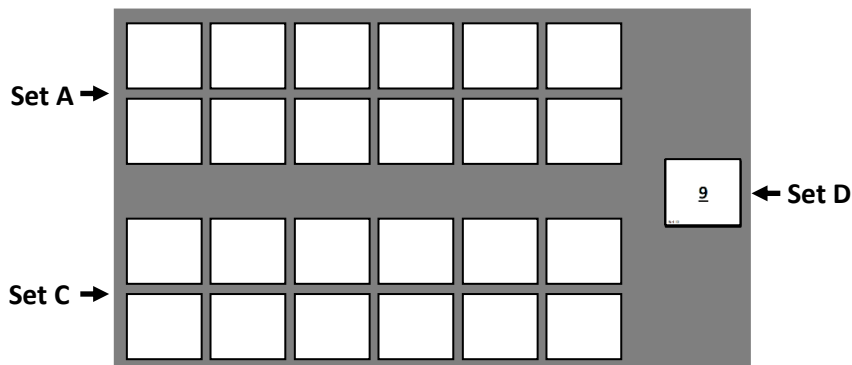
Math Talk Samples



Multiply/Divide Integers: Concentration #2

Group Size – 2 or 3 Students

- 1 Shuffle **Sets A, C and D**. (Keep in separate piles)
- 2 Place all **Set A** cards and all **Set C** cards face down.
- 3 Place all **Set D** cards in one pile for both players.



- 4 Student 1, choose a card from **Set A** and flip it face up. Then, choose a card from **Set C** and flip it face up.
 - If the cards match, describe the match and keep both cards. Then, find the matching card from **Set D** and add it to the pair.
 - If the cards do not match, flip both cards back over.
- 5 Student 2 takes a turn. Continue taking turns. The player with the most matches wins the game.

Set D $8 \times -6 = -48$ and $-48 \div -8 = -6$

Set C -48 is equal to 8 groups of how many?

Set B 8 groups of what is equal to -48 ?

Math Talk Samples



Multiply/Divide Integers: Concentration #3

Group Size – 2 or 3 Students

- Shuffle **Sets B, C and D**. (Keep in separate piles)
- Place all **Set B** cards and all **Set C** cards face down.
- Place all **Set D** cards in one pile for both players.

- Student 1, choose a card from **Set B** and flip it face up. Then, choose a card from **Set C** and flip it face up.
 - If the cards match, describe the match and keep both cards. Then, find the matching card from **Set D** and add it to the pair.
 - If the cards do not match, flip both cards back over.
- Student 2 takes a turn. Continue taking turns. The player with the most matches wins the game.