☆MSTAR
INTERVENTION

PROPORTIONALITY
Lesson 17: Identifying Proportionality
on a Graph **Display Master**

DM Display Master

Display Master: Key Idea: Identifying Proportionality

- Graphs of proportional relationships pass through the origin. Graphs of nonproportional relationships do not pass through the origin.

Display Master: Burger A

Chris will serve burgers at the party. He knows that 1 pound of hamburger meat makes 3 patties.

Display Master: Burger B

Pounds of meat x	Process	Number of patties y
1		3
2		
3		
4		
5		
6		

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DM
Display Master

Display Master: Burger C

Pounds of meat x	Process	Number of patties y
1	3(1)	3
2	3(2)	6
3	3(3)	
4	3(4)	
5	3(5)	
6	3(6)	

Display Master: Burger D

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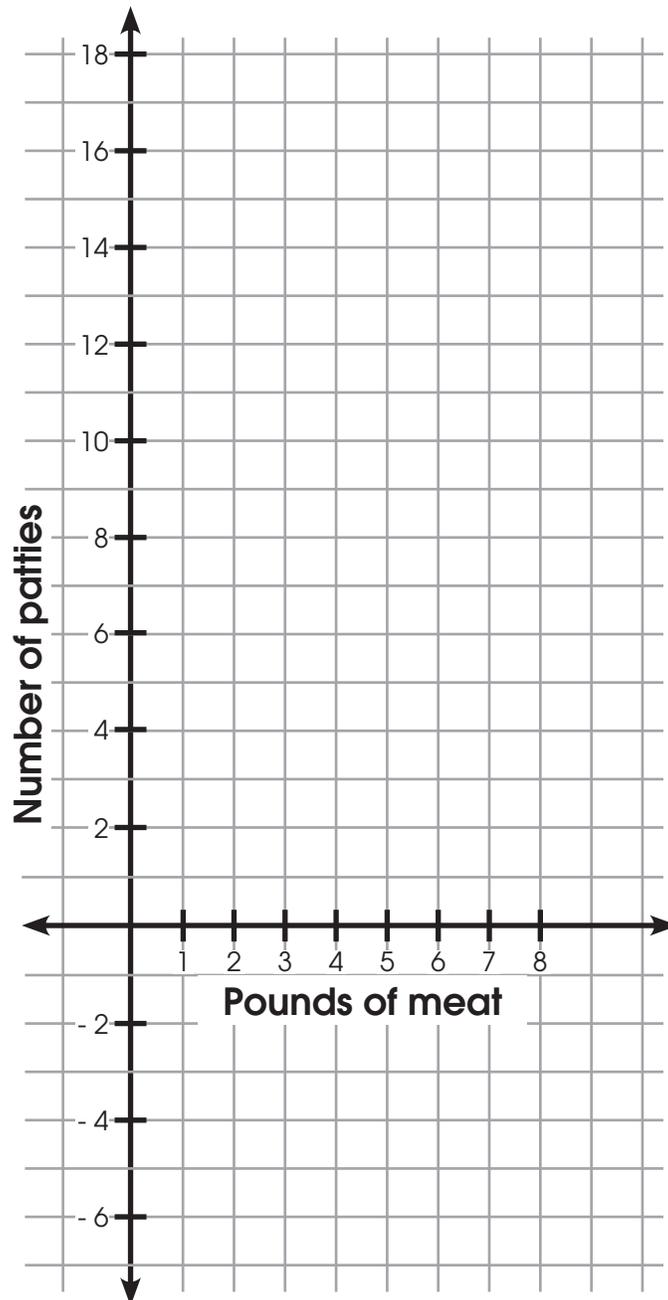
Display Master: Burger E

Pounds of meat x	Process	Number of patties y
0		
1	3(1)	3
2	3(2)	6
3	3(3)	9
4	3(4)	12
5	3(5)	15
6	3(6)	18

Number of patties (vertical axis, values 2, 4, 6, 8, 10, 12, 14, 16, 18)

Pounds of meat (horizontal axis, values 1, 2, 3, 4, 5, 6, 7, 8)
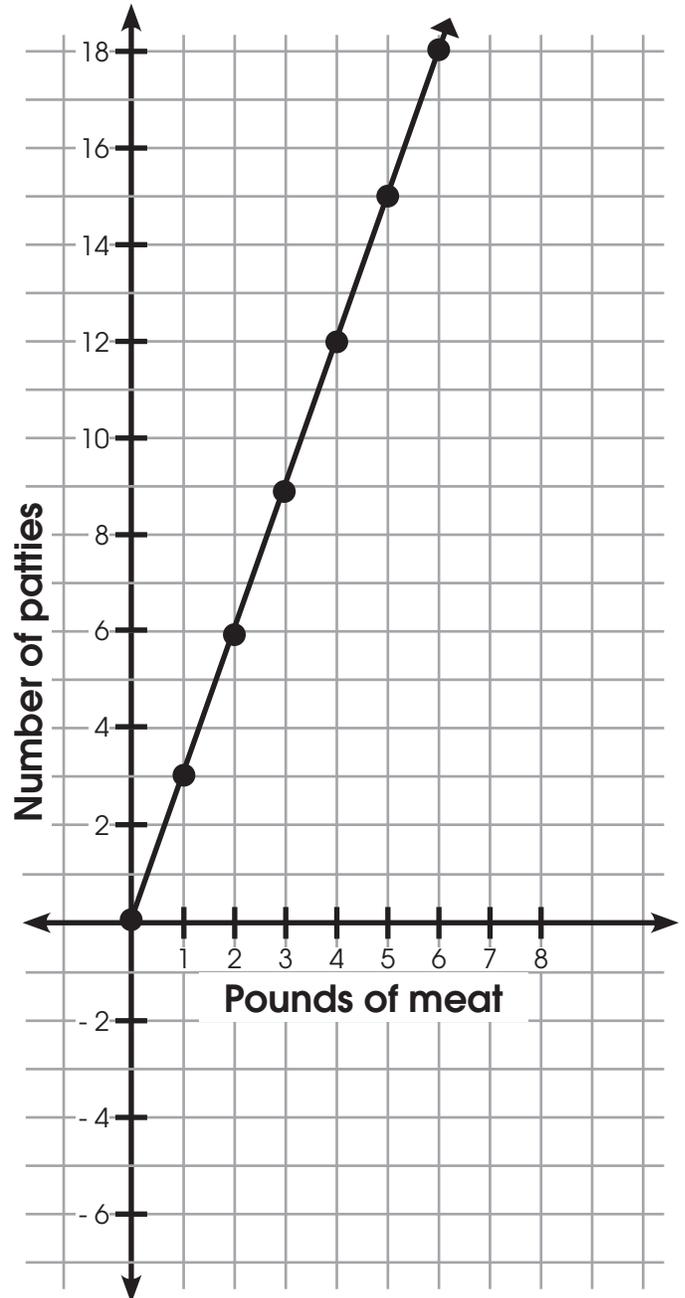
Display Master: Ham A

Laura is buying ham. With every 1 pound of ham, she can make 8 sandwiches. She wants to know how many sandwiches she can make for her party, after she gives each of her 3 children a sandwich.

Display Master: Ham B

Pounds of ham x	Process	Number of sandwiches y
1		
2		
3		
4		
5		
6		

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Display Master: Ham C

Pounds of ham x	Process	Number of sandwiches y
1	8(1) - 3	5
2	8(2) - 3	13
3	8(3) - 3	
4	8(4) - 3	
5	8(5) - 3	
6	8(6) - 3	

Display Master: Ham D
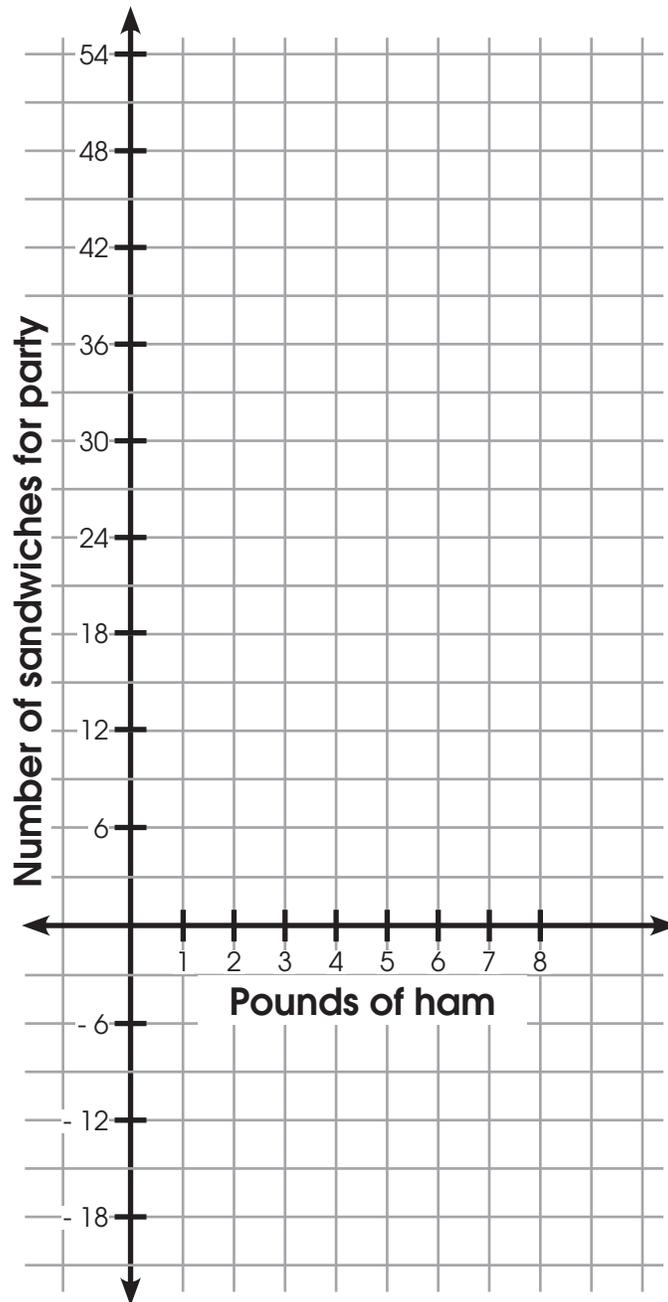
Display Master: Ham E

Pounds of ham x	Process	Number of sandwiches y
0		
1	8(1) - 3	5
2	8(2) - 3	13
3	8(3) - 3	21
4	8(4) - 3	29
5	8(5) - 3	37
6	8(6) - 3	45