Comparing Ratios Using Tables

Name: _____

Use tables to compare ratios. We can compare ratios in a table by looking to see where they have values in common and comparing the values that the number is paired up with. Or we can extend the table to find a position where this might occur.

1.) Caleb placed 5 beehives for every 2 acres on the peach orchard. Then he placed 8 beehives for every 3 acres on the apple orchard. Compare the ratios using tables to find which orchards have more bees per acre.

Which orchard has more bees per acre?

_____

Explain. _____

_____

Peaches		Apples	
# of beehives	# of acres	# of beehives	# of acres

2.) Jared, a bee keeper, placed 120 hives in apple orchards in New York where they produced 300 boxes of honey. He also had 100 hives in orange groves in Florida where they produced 280 boxes of honey. Use tables to compare the bee to honey producing ratio.

Which of Jared's bees are producing

more honey? _____ How do you know? _____

_____

New York		Florida	
# of beehives	# of boxes	# of beehives	# of boxes

3.) Older orchards need more hives per acre. Caleb has decided to place 6 hives for every 2 acres on an older peach orchard. Zeke, one of Caleb's workers, delivered 10 hives to a 30-acre peach orchard. Did Zeke follow Caleb's decision? _____
Justify your answer using ratio tables.

How does the table prove your answer? _____

_____

Caleb		Zeke	
# of acres	# of hives	# of acres	# of hives

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1.) Caleb placed 5 beehives for every 2 acres on the peach orchard. Then he placed 8 beehives for every 3 acres on the apple orchard. Compare the ratios using tables to find which orchards have more bees per acre.

Which orchard has more bees per acre?

_____

Peaches		Apples	
# of beehives	# of acres	# of beehives	# of acres
5	2	8	3
10	4	16	6
15	6	24	9
20	8	32	12
25	10	40	15

Explain. _____

_____

2.) Jared, a bee keeper, placed 120 hives in apple orchards in New York where they produced 300 boxes of honey. He also had 100 hives in orange groves in Florida where they produced 280 boxes of honey. Use tables to compare the bee to honey producing ratio.

New York		Florida	
# of beehives	# of boxes	# of beehives	# of boxes
120	300	100	280
240	600	200	560
360	900	300	840
480	1200	600	1680
600	1500	1200	3360

Which of Jared's bees are producing

more honey? _____ How do you know? _____

_____

3.) Older orchards need more hives per acre. Caleb has decided to place 6 hives for every 2 acres on an older peach orchard. Zeke, one of Caleb's workers, delivered 10 hives to a 30-acre peach orchard. Did Zeke follow Caleb's decision? _____
Justify your answer using ratio tables.

Caleb		Zeke	
# of acres	# of hives	# of acres	# of hives
2	6	6	2
4	12	30	10
6	18	60	20
8	24	90	30
10	30	120	40

How does the table prove your answer? _____

_____