

Name: \_\_\_\_\_

# MID-TOPIC CHECKPOINT

TOPIC  
**5**

1. **Vocabulary** How can a *ratio* be used to compare quantities? *Lesson 5-1*

2. Elsie's math class has 11 female students and 10 male students. Write the ratio of female students to the total number of students in two different ways. *Lesson 5-1*

3. During the breakfast service, the D-Town Diner sells 12 cups of coffee for every 10 glasses of orange juice. How many cups of coffee would the diner have sold if 40 glasses of orange juice had been sold? Complete the table with equivalent ratios. *Lesson 5-2*

<b>Cups of Coffee</b>	12	<input type="text"/>	<input type="text"/>	<input type="text"/>
<b>Glasses of Orange Juice</b>	10	<input type="text"/>	<input type="text"/>	40

4. The ratio of cows to chickens at Old McDonald's Farm is 2:7. Which farms have a greater ratio of cows to chickens than Old McDonald's Farm? Select all that apply. *Lessons 5-3*

Red's Farm: 3 cows for every 5 chickens

Cluck & Moo Farm: 1 cow for every 5 chickens

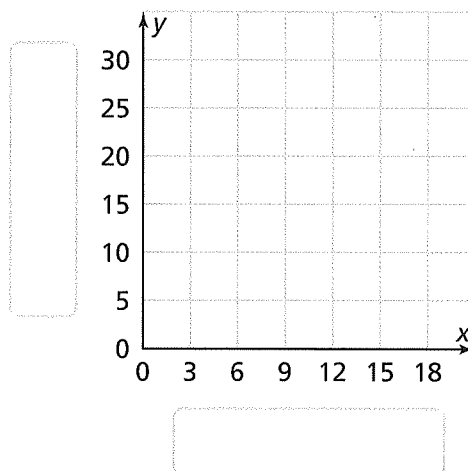
T Family Farm: 1 cow for every 3 chickens

Pasture Farm: 2 cows for every 9 chickens

C & C Farm: 3 cows for every 8 chickens

5. A package of 3 notebooks costs \$5. Complete the ratio table and graph the pairs of values. How much will 18 notebooks cost? *Lesson 5-4*

Number of Notebooks	Cost (\$)
3	5
<input type="text"/>	10
<input type="text"/>	15
<input type="text"/>	20
<input type="text"/>	25



How well did you do on the mid-topic checkpoint? Fill in the stars.



# MID-TOPIC PERFORMANCE TASK

Hillsdale Orchard grows Fuji apples and Gala apples. There are 160 Fuji apple trees and 120 Gala apple trees in the orchard.

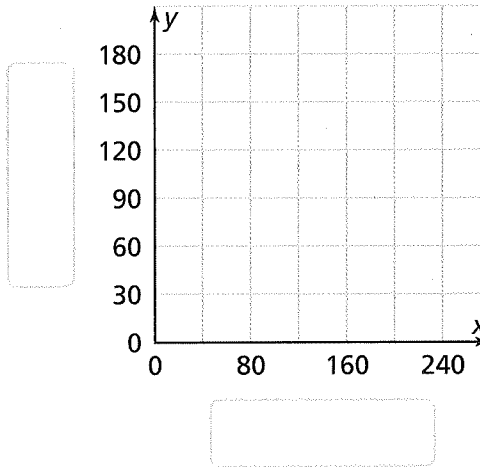
## PART A

Hillsdale Orchard's owners decide to plant 30 new Gala apple trees. Complete the ratio table to find the number of new Fuji apple trees the owners should plant if they want to maintain the same ratio of Fuji apple trees to Gala apple trees.

Fuji Apple Trees	<input type="text"/>	<input type="text"/>	160
Gala Apple Trees	30	<input type="text"/>	120

## PART B

Use the ratio table to complete a graph that shows the relationship between the number of Fuji apple trees and Gala apple trees at Hillsdale Orchard.



## PART C

By the end of the next season, the owners of Hillsdale Orchard plan to have 240 Fuji apple trees. Explain how you could use the graph to find the total number of Fuji and Gala apple trees that Hillsdale Orchard will have if the owners achieve their goal.

