Name:	Class:	Date:
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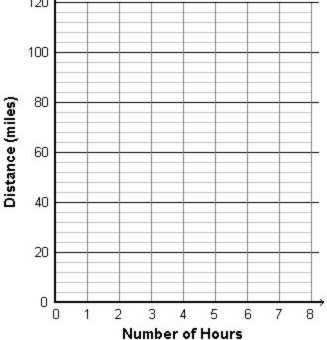
# 1. Due pencil and paper to answer the question.

Complete the table. Graph the data and connect the plotted points. Sue's biking speed is 14 miles per hour.

Rule: Miles = 14 \* number of hours

Number of Hours (h)	Miles (14 ∗ <i>h</i> )
0	0
1	14
2	
3	
5	
7	98
8	

# Sue's Biking Trip

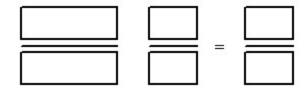


# 2. Due pencil and paper to answer the question.

Complete the rate table. Use the table to write an open proportion. Then solve the proportion.

A species of bamboo grows at a rate of 3 inches every 9 hours. About how many hours does this species take to grow 9 inches?

inches	1	3	4	6	
hours		9			1



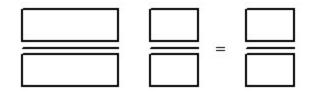
hours

## 3. • Use pencil and paper to answer the question.

Complete the rate table. Use the table to write an open proportion. Then solve the proportion.

A species of bamboo grows at a rate of 3 inches every 9 hours. About how many hours does this species take to grow 8 inches?

inches	1	3	5	6	
hours		9			1



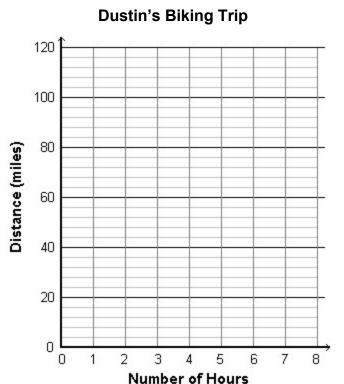
hours

## 4. Due pencil and paper to answer the question.

Complete the table. Graph the data and connect the plotted points. Dustin's biking speed is 14 miles per hour.

Rule: Miles = 14 \* number of hours

Number of Hours (h)	Miles (14 ∗ <i>h</i> )
0	0
1	14
2	
3	
4	
7	98
8	



## 5. • Use pencil and paper to answer the question.

Noel gets paid \$50 per week to help care for his younger brothers. Michael gets paid \$60 per week mowing neighbors' lawns.

**a.** Complete the tables to show their earnings.

**Noel's Earnings** 

Number of Weeks	Total Earned
1	\$50
2	\$100
3	\$150
4	\$200
5	\$250

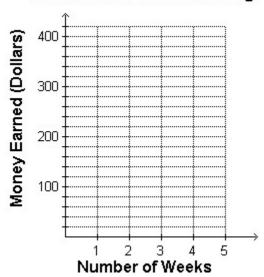
Michael's Earnings

Number of Weeks	Total Earned
1	\$60
2	\$120
3	\$180
4	\$240
5	\$300

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**b.** Plot the points and extend lines through the points to show Noel's and Michael's earnings.

Noel's and Michael's Earnings



What is the difference in their earnings...

- **c.** After 1 week? \_\_\_\_\_
- d. After 2 weeks?
- After 3 weeks? \_\_\_\_\_
- After 4 weeks? \_\_\_\_\_
- g. After 5 weeks?
- 6. Due pencil and paper to answer the question.

Jake earns \$540 for 40 hours of work. Fill in the rate table.

hours	10	20	30
<b>amount (\$)</b> 135.00			

At this rate, how much will Jake earn for 55 hours of work?

# 7. Due pencil and paper to answer the question.

Jake earns \$460 for 40 hours of work.

Fill in the rate table.

hours	10	20	30
<b>amount (\$)</b> 115.00			

At this rate, how much will Jake earn for 55 hours of work?

8.  Use pencil and paper to answer the question	8.		• Use	pencil	and	paper	to	answer	the	questio
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Complete.

# 9. Description uses pencil and paper to answer the question.

Write a proportion to solve the problem below.

10% of what number is 73?

Enter the appropriate value to answer the question or solve the problem.

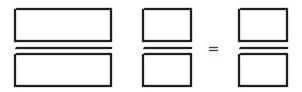
# 11. Due pencil and paper to answer the question.

Complete.

12. • Use pencil and paper to answer the question.

Write a proportion to solve the problem below.

50% of what number is 73?



50% of is 73.

Enter the appropriate value to answer the question or solve the problem.

13. Find 56% of 50.

56% of 50 is \_\_\_\_\_.

14. Find 44% of 25.

44% of 25 is .

15. Find the value of *t* so the ratio is expressed in terms of a common unit.

$$\frac{6 \text{ days}}{5 \text{ weeks}} = \frac{6 \text{ days}}{t \text{ days}}$$

16. Find the value of t so the ratio is expressed in terms of a common unit.

$$\frac{5 \text{ days}}{3 \text{ weeks}} = \frac{5 \text{ days}}{t \text{ days}}$$
$$t = \underline{\qquad}$$

*Enter the appropriate word(s) to complete the statement.* 

17. Convert.

18. Convert.

19. Find the value of *x* so the ratio is expressed in terms of a common unit.

45 seconds:58 minutes = 45 seconds:x seconds

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Indicate the answer choice that best completes the statement or answers the question.

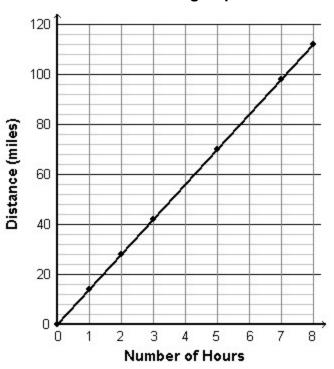
- \_\_\_ 20. Which rate is equivalent to 130 kilometers in 2 hr 30 min? Fill in the circle next to the best answer.
  - a. 182 km in 3 hr
  - b. 390 km in 7 hr
  - c. 65 km in  $1\frac{1}{2}$  hr
  - d. 260 km in 5 hr

#### **Answer Key**

1.

Hours	Miles
0	0
1	14
2	28
3	42
5	70
7	98
8	112

Sue's Biking Trip



2.

inches	1	3	4	6	1/3
hours	3	9	12	18	1

inches

hours

27 hours

3.

inches	1	3	5	6	1 3
hours	3	9	15	18	1

inches hours

9

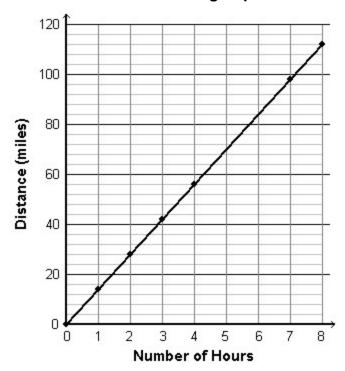
8

24 hours

4.

Hours	Miles		
0	0		
1	14		
2	28		
3	42		
4	56		
7	98		
8	112		

# **Dustin's Biking Trip**



#### 5. **a.**

# **Noel's Earnings**

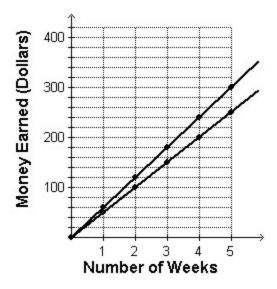
Number of	Total
Weeks	Earned
1	\$50
2	\$100
3	\$150
4	\$200
5	\$250

# Michael's Earnings

Number of Weeks	Total Earned	
1	\$60	
2	\$120	
3	\$180	
4	\$240	
5	\$300	

b.

# Noel's and Michael's Earnings



- **c.** \$10
- **d.** \$20
- **e.** \$30
- **f.** \$40
- **g.** \$50

6.

	4.0		
hours	10	20	30
amount (\$)	135.00	270.00	405.00

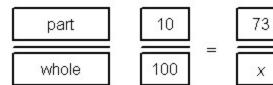
Jake will earn \$742.50 for 55 hours of work.

7.

hours	10	20	30
amount (\$)	115.00	230.00	345.00

Jake will earn \$632.50 for 55 hours of work.

- 8. **a.** 4
  - **b.** 9
  - **c.** 110
  - **d.** 120



9.

730

- 10.550
- 11. **a.** 16
  - **b.** 51
  - **c.** 660
  - **d.** 210

$$\begin{array}{c|cccc}
 part & 50 & 73 \\
\hline
 whole & 100 & x
\end{array}$$

12.

146

- 13. 28
- 14. 11
- 15. 35
- 16. 21
- 17.5,680

5680

18. 1,100 1100

Name:	Class:	Date:

19. **3,480 3480** 

20. d

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