Extra Practice

For Exercises 10-12, use a table to solve. Then explain your reasoning.

10. A vine grows 7.5 feet every 5 days. Is the length of the vine on the last day proportional to the number of days of growth?

Yes; the length to time ratios are all equal to 1.5 ft per day.

Homework Help →

Time (days)	5	10	15	20
Length (ft)	7.5	15	22.5	30

11. **STEM** To convert a temperature in degrees Celsius to degrees Fahrenheit, multiply the Celsius temperature by $\frac{9}{5}$ and then add 32°. Is a temperature in degrees Celsius proportional to its equivalent temperature in degrees Fahrenheit?

Degrees Celsius	0	10	20	30
Degrees Fahrenheit				

12. On Saturday, Querida gave away 416 coupons for a free appetizer at a local restaurant. The next day, she gave away about 52 coupons an hour.

   a. Is the number of coupons Querida gave away on Sunday proportional to the number of hours she worked that day?

Hours Worked on Sunday	1	2	3	4
Coupons Given Away on Sunday				

   b. Is the total number of coupons Querida gave away on Saturday and Sunday proportional to the number of hours she worked on Sunday?

Hours Worked on Sunday	1	2	3	4
Coupons Given Away on Weekend				

13. **CCSS Justify Conclusions** The fee for ride tickets at a carnival is shown in the table at the right.

   a. Is the fee for ride tickets proportional to the number of tickets? Explain your reasoning.

Tickets	5	10	15	20
Fee ($)	5	9.50	13.50	16

   b. Can you determine the fee for 30 ride tickets? Explain.

14. Mr. Martinez is comparing the price of oranges from several different markets. Which market's pricing guide is based on a constant unit price?

Ⓐ

Number of Oranges	5	10	15	20
Total Cost ($)	3.50	6.00	8.50	11.00

Ⓒ

Number of Oranges	5	10	15	20
Total Cost ($)	3.00	5.00	7.00	9.00

Ⓑ

Number of Oranges	5	10	15	20
Total Cost ($)	3.50	6.50	9.50	12.50

Ⓓ

Number of Oranges	5	10	15	20
Total Cost ($)	3.00	6.00	9.00	12.00

15. Short Response The middle school is planning a family movie night where popcorn will be served. The constant relationship between the number of people n and the number of cups of popcorn p is shown in the table. How many people can be served with 519 cups of popcorn?

n	30	60	120	
p	90	180	360	519

Find the value of each expression if $x = 12$. 6.EE.2

16. $3x$ _____

17. $2x - 4$ _____

18. $5x + 30$ _____

19. $3x - 2x$ _____

20. $x - 12$ _____

21. $\dfrac{x}{4}$ _____

Make a table to solve the situation. 6.RP.3a

22. Brianna downloads 9 songs each month onto her MP3 player. Show the total number of songs downloaded after 1, 2, 3, and 4 months.

Month				
Number of Songs				