Proportional Relationships with Tables

Complete the table. State the constant of proportionality.

1)

Minutes	2		5		11
Distance (in cm)		80		72	88

2)

Hours		12	5		6
Pages Written	20	60		45	

Determine if the table is proportional.
If it is, state the constant of proportionality.
If it is not, explain why.

3)

Portraits	7	1	5	3	9
Hours	21	3	15	9	27

4)

Families	8	2	6	4	9
Children	24	6	16	12	27

5)

# of Balls	9	1	5	3	8
Price ($)	18	3	10	6	16

Create a table. Then determine if it is proportional. If it is, state the constant of proportionality. If it is not, explain why.

6) Maia drives 150 miles in 3 hours, 250 miles in 5 hours, and 400 miles in 8 hours.

7) An elevator rises 40 feet in 2 seconds, 100 feet in 5 seconds, and 180 feet in 9 seconds.

8) Drew types 45 words in 1 minute, 120 words in 3 minutes, and 184 words in 4 minutes.

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Complete the table.

9)

inches	72	180	432	
yards	2	5	12	15

10)

hours	3	4	6	10
dollars	45		90	150

11)

miles	104		234	416
hour	2	3	4.5	8

Determine if the table shows a constant of proportionality. If it does, state the constant of proportionality; if it does not, explain why.

12)

pieces of chicken	7	8	6	2
price in dollars	14	16	12	4

13)

boxes of candy	2	5	9	7
pieces of candy	32	80	144	112

14)

week	2	5	3	7
height	8	25	12	28

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15) When making coffee, Zachary uses 3 tablespoons of ground coffee for every 12 ounces of water. Complete the table by displaying this rate as well as four other equivalent ratios. Then explain how you calculated the equivalent ratios you wrote.

Coffee (in Tbs)	Water (in oz)

Proportional Relationships with Tables

16) An online bookseller charges a flat fee of $2 plus $1 per book for shipping. Complete the table and determine if the relationship is proportional. Show your work. Explain why or why not it is proportional.

Books	1	2	3	4
Cost ($)				

Proportional Relationships with Tables

Determine if the relationships are proportional. Explain your reasoning.

17)

1

Year	Profit ($)
1	10,000
2	20,000
3	40,000

2

Gallons	Miles
1	1
2	4
3	7
4	10

3

Hours	Wage
1	$ 8.00
2	$ 16.00
3	$ 24.00
4	$ 32.00

Proportional Relationships with Tables

18) Nora is going shopping for shoes for the 12 members of the dance team. If the cost of each pair of shoes is the same regardless of size, is the relationship proportional? Explain.