

Multiplication and Division Expressions

Find a rule and write an expression using multiplication and division.

To find a rule and write an expression, look at the numbers being compared. Which is the greater number?

Consider 3 and 24. Because 24 is greater than 3, you can rule out subtraction and division.

Find how much greater 24 is than 3. Since 24 is 8 times 3, the rule must involve multiplication.

Look at the other two columns of numbers and compare them. The bottom number is 8 times as great as the top number.

A rule is multiply by 8, so the expression is $8 \times b$.

<i>b</i>	3	6	8
	24	48	64



Compare the numbers in each column of the table.

Find a rule for each table.

1.

<i>a</i>	48	56	64	72
	6	7	8	9

2.

<i>u</i>	8	11	13	16
	32	44	52	64

Find a rule and write the missing number for each table.

3.

<i>j</i>	18	14	12	8
	9	7		4

4.

<i>e</i>	2	4	6	7
	6	12	18	

5.

<i>p</i>	4	6	10	17
	20		50	85

6.

<i>q</i>	48	42	30	24
	8		5	4

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Find a rule and write the missing number for each table.

1.

<i>m</i>	6	7	8	9
	54	63		81

2.

<i>k</i>	14	21	49	63
	2	3		9

3.

<i>z</i>	24	18	9	0
	8		3	0

4.

<i>q</i>	2	3	4	5
	14	21	28	

5.

<i>e</i>	5	7	9	11
		42	54	66

6.

<i>l</i>	64	48	32	24
	8	6	4	

7.

<i>s</i>	3	8	10	16
	60	160		320

8.

<i>d</i>	30	25	15	5
		5	3	1

9. Evaluate the expression $48 \div n$ when $n = 6$. _____

10. Which expression means “3 times a number h ”?

A $3 \times h$

B $3 - h$

C $3 + h$

D $3 \div h$

11. How could you change Exercise 5 so that your rule uses the inverse operation?
