

We have studied patterns in sequences. There are also patterns between pairs of numbers. A _____ shows the relationship (or function) between related pairs of numbers.

Gallons	Quarts
1	4
2	8
3	12
5	20

Gallons	1	2	3	5
Quarts	4	8	12	20

Eight gallons of milk is how many quarts of milk?

Yosseline is constructing a brick walkway one section at a time. The table below shows the relationship between the numbers of sections and the numbers of bricks she used.

Number of Sections	Number of Bricks
3	36
5	60
8	96

Describe the relationship between the number of sections and the number of bricks. If Yosseline wants to construct a 50-section walkway, how many bricks does she need in all?

In	6	8	10
Out	2	4	6

19. **Multiple Choice** What does the function do to each "in" number?

- A** It divides by 3. **B** It adds 4.
C It subtracts 4. **D** It adds 2.

20. If 15 is used as an "in" number, what will be the "out" number?

Hours Worked	Dollars Paid
5	\$40
8	\$64
10	\$80

21. Describe how to find dollars paid if you know the number of hours worked.

22. If the table shows D'Marcus's pay rate, how much money would he earn in a week if he worked 25 hours?

Emelda jogs three miles a day. The table below shows how many miles she would jog in a given number of days. Copy the table on your paper and write in the missing numbers. Then use a calculator to predict the number of miles she would run in a year.

Number of Days	Miles Jogged
2	6
3	
5	
8	