## 小树老师的数学课

习题篇04

k, n, 12, 6, 17

What is the value of n in the list above?

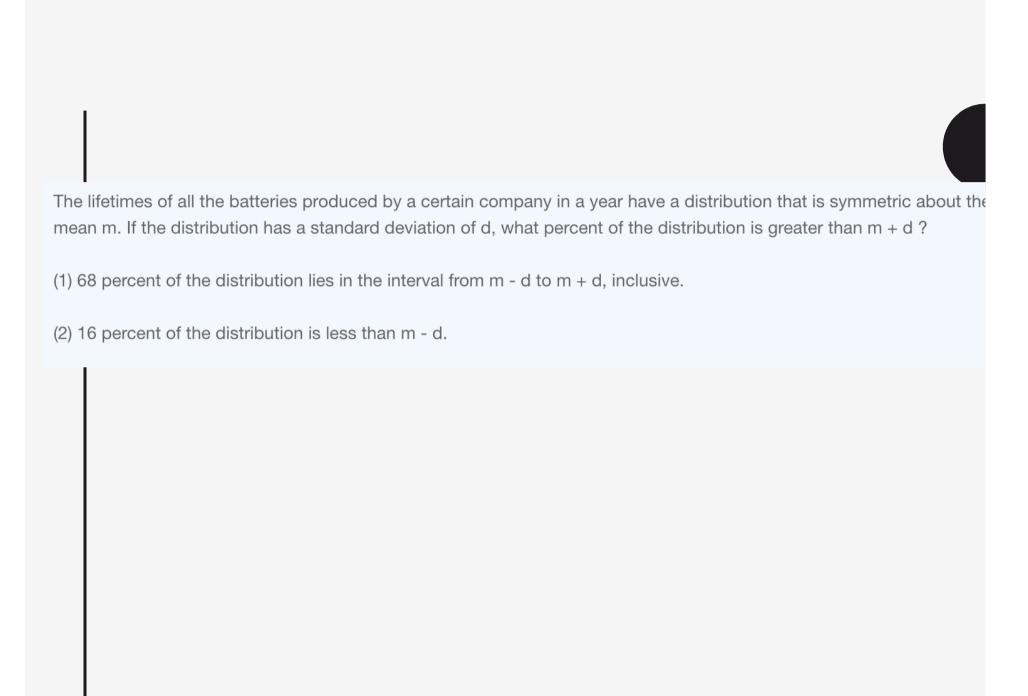
(1)k < n

(2) The median of the numbers in the list is 10.

If x and y are integers, is x > y?

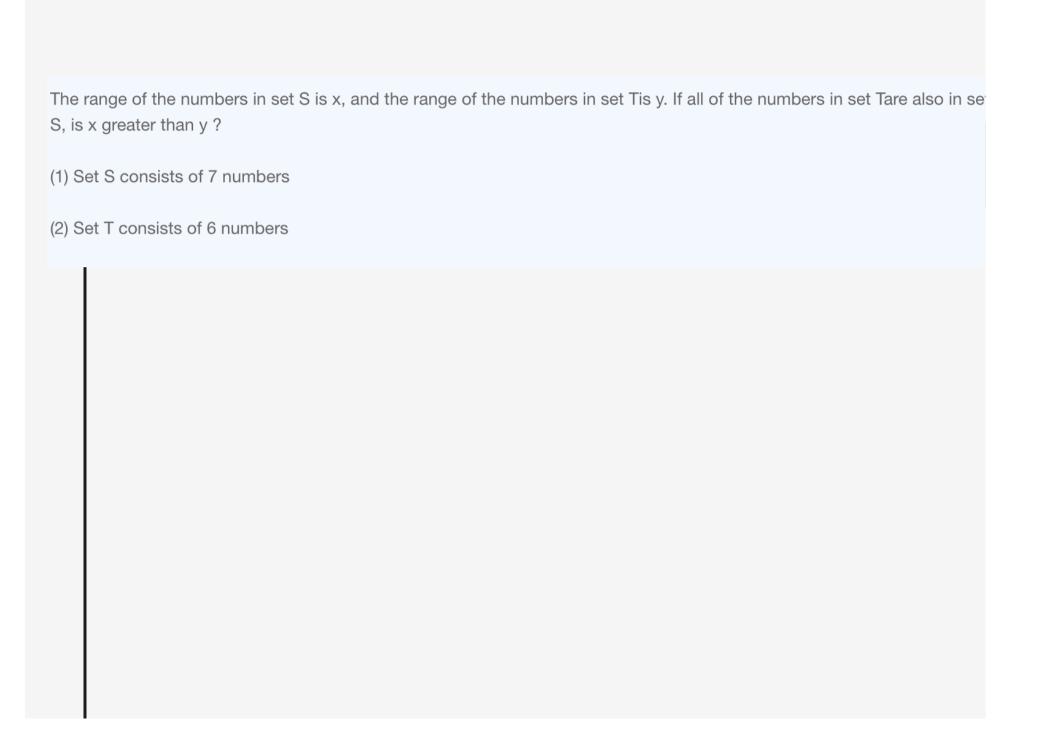
(1) 
$$x+y > 0$$

(2) 
$$y^x < 0$$



If n is a positive integer and  $k = 5.1 * 10^n$ , what is the value of k?

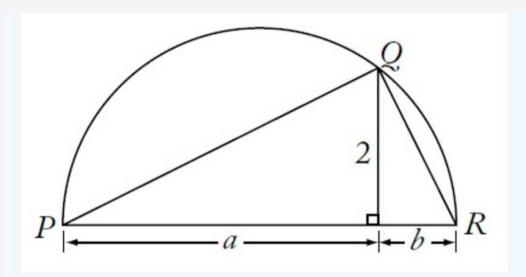
$$(2)k^2 = 2.601 * 10^9$$



	Favorable	Unfavorable	Not Sure
Candidate M	40	20	40
Candidate N	30	35	35

The table above shows the results of a survey of 100 voters who each responded "Favorable" or "Unfavorable" or "Not Sure" when asked about their impressions of Candidate M and of Candidate N. What was the number of voters who responded "Favorable" for both candidates?

- (1) The number of voters who did not respond "Favorable" for either candidate was 40.
- (2) The number of voters who responded "Unfavorable" for both candidates was 10.



If arc PQR above is a semicircle, what is the length of diameter  $\overline{PR}$  ?

$$(1)a = 4$$

$$(2)b = 1$$

Material A costs \$3 per kilogram, and material B costs \$5 per kilogram. If 10 kilograms of material K consists of x kilograms of material A and y kilograms of material B, is x > y?

(1)y > 4

(2) The cost of the 10 kilograms of material K is less than \$40.

- A Statement (1) ALONE is sufficient, but statement (2) alone is not sufficient.
- **B** Statement (2) ALONE is sufficient, but statement (1) alone is not sufficient.
- **C** BOTH statement TOGETHER are sufficient, but NEITHER statement ALONE is sufficient.
- **D** EACH statement ALONE is sufficient.
- E Statements (1) and (2) TOGETHER are NOT sufficient.

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What is the number of cans that can be packed in a certain carton? (1) The interior volume of this carton is 2,304 cubic inches. (2) The exterior of each can is 6 inches high and has a diameter of 4 inches. If d denotes a decimal, is  $d \ge 0.5$ ?

(1) When d is rounded to the nearest tenth, the result is 0.5.

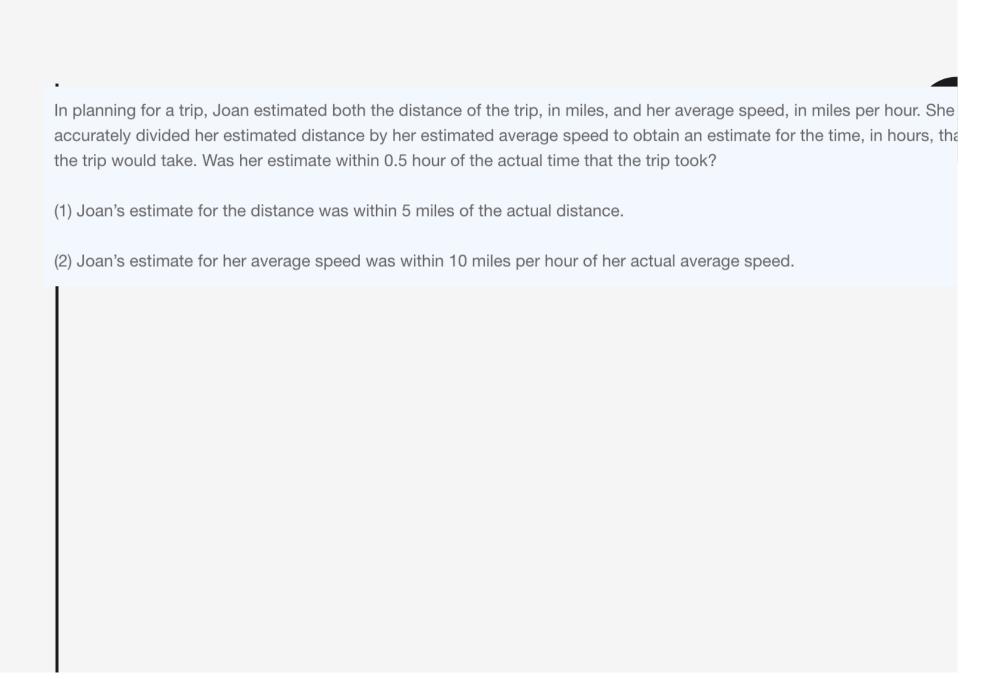
(2) When d is rounded to the nearest integer, the result is 1.

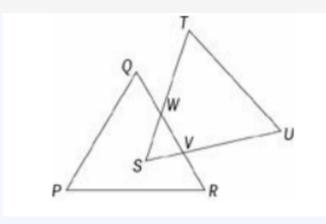
How many integers are there between, but not including, integers r and s?

$$(1)s-r=10$$

(2) There are 9 integers between, but not including, r + 1 and s + 1.

Each week a certain salesman is paid a fixed amount equal to \$300, plus a commission equal to 5 percent of the amount of his sales that week over \$1,000. What is the total amount the salesman was paid last week?
(1)The total amount the salesman was paid last week is equal to 10 percent of the amount of his sales last week.
(2)The salesman's sales last week totaled \$5,000.





In the figure above, PQR and STU are identical equilateral triangles, and PQ = 6. What is the perimeter of polygon PQWTUVR?

- (1) Triangle SWV has perimeter 9.
- (2) VW has length 3.5.