



Puzzle Time

What is Moby Dick's Favorite Dinner?

Write the letter of each answer in the box containing the exercise number.

A normal distribution has mean μ and standard deviation σ .
Find the indicated probability for a randomly selected x -value from the distribution.

1. $P(x \geq \mu + \sigma)$
2. $P(x \geq \mu - 2\sigma)$
3. $P(x \leq \mu - 2\sigma)$
4. $P(\mu - 2\sigma \leq x \leq \mu + 2\sigma)$
5. $P(x \leq \mu + 3\sigma)$

A normal distribution has a mean of 24 and a standard deviation of 3. Find the probability that a randomly selected x -value from the distribution is in the given interval.

6. between 18 and 27
7. between 21 and 33
8. between 24 and 33
9. at most 27
10. at most 15
11. not greater than 24
12. between 18 and 33

Answers

- S. 2.5%
- A. 99.85%
- F. 16%
- H. 95%
- S. 97.35%
- N. 81.5%
- S. 49.85%
- I. 97.5%
- I. 0.15%
- H. 84%
- D. 83.85%
- P. 50%

1	2	3	4		5	6	7		8	9	10	11	12
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