019	Set Size 3.1 Counting DSE210x Courseware edX			
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Results gathered from 550 respondents.				
FEEDBA A has size	CK 9 as the elements are 1 to 9.			
1 Perfe	ct squares			
1.0/1.0 point (graded) A square of an integer, for example, 0, 1, 4 and 9, is called a <i>perfect square</i> . How many perfect squares are ≤ 100 ?				
11				
11				
Explanati The perfe	on ct squares ≤ 100 are 0^2 , 1^2 , 2^2 ,, 10^2 . Hence there are 11.			
Submit You have used 2 of 4 attempts				

1 Answers are displayed within the problem

2

0 points possible (ungraded)

Which of the following sets are finite?

✓ Weeks in a year ✓

- Students at UCSD
- Odd primes
- ✓ Positive integer divisors of 30 ✓



Explanation

- True.
- True. Despite appearances, luckily, UCSD has only a finite number of students.
- True. It is $\{1, 2, 3, 5, 6, 10, 15, 30\}$

Submit

You have used 2 of 4 attempts

1 Answers are displayed within the problem

3

0.0/3.0 points (graded)

Which of the following sets are finite?

$$lacksquare \{x \in Z | x^2 \leq 10\}$$

$$lacksquare \{x \in N | x^3 \leq 10\}$$
 🗸

$$lacksquare \{x \in R | x^3 = 10\}$$



Explanation

- True. It is $\{-3,-2,\cdots,3\}$.
- False. It is $\{x\in Z|x\leq 2\}$.
- True. It is $\{0,1,2\}$.

- False. It is $\{x \in R | -\sqrt{10} \le x \le \sqrt{10} \}$.
- True. It is $\{10^{\frac{1}{3}}\}$.

Submit

You have used 4 of 4 attempts

1 Answers are displayed within the problem

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