# Powerprep Plus 2 Quant Set 2 Answers

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## 1) DSET 2Correct rate: 98%Difficulty: easy

x = 1, y = 2x = -1, y = -2

#### SET 2

Difficulty: easy

Let the first number be x, so  $x, x + 1, x + 2 \dots x$ + 10 as they are consecutive integers. So,  $x + (x + 1) + (x + 2) + \dots + (x + 10) =$ 11x + 55 = 2211x = 22 - 5511x = -33 $x = -3 \leftarrow first term$ The 11 numbers are: -3, -2, -1, 0, 1, 2, 3, 4, 5, 6, 7median = 2

## 3) D SET 2 Correct rate: 87% Difficulty: easy

Insert 2, 4, 6, 8

#### 4) B SET 2 Correct rate: 94% Difficulty: easy

*Figure* 1:  $\sqrt{5^2 + 5^2} = \sqrt{50}$ 

*Figure* 2:  $\sqrt{7^2 + 3^2} = \sqrt{58}$ 

### 5) C SET 2 Correct rate: 96% Difficulty: easy

 $A = 2\pi r = 2\pi \times 4x = 8\pi x$ 

#### 6) B SET 2 Correct rate: 87% Difficulty: easy

v = xt

$$v_B = x_B \times t_B \Longrightarrow 120 = rt_B \Rightarrow t_B = \frac{120}{r}$$

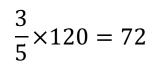
$$v_A = x_A \times t_A \Longrightarrow 240 = 3rt_A \Longrightarrow t_A = \frac{80}{r}$$

## 7) C SET 2 Correct rate: 97% Difficulty: easy

 $f(-4) + f(0) - f(4) = 2^{-4} + 2^0 - 2^{-4} = 1$ 

8) C	SET 2	Correct rate: 93%	Difficulty: easy
A = 1 + x = 1 - 3 = -2			
B = x - 5 = -3 - 5 = -8			
$C = \frac{1}{x} = -\frac{1}{3}$			
D = 3x = -9			
$E = x^3 = -27$			

## 9) D SET 2 Correct rate: 98% Difficulty: easy



#### 10) B SET 2 Correct rate: 90% Difficulty: easy

 $4 \times 3 \times 5 \times 7 = 420$ 

#### 11) CSET 2Correct rate: 97%Difficulty: easy

60%×15% = 9%

### 12)A,B,C,D SET 2

Correct rate: 97%

Difficulty: easy

### 13)D

#### SET 2

Correct rate: 91%

Difficulty: easy

#### 14)B SET 2 Correct rate: 97% Difficulty: easy

Range = 77% - 18% = 59%

## 15) D SET 2 Correct rate: 92% Difficulty: easy

Compare the percentage in the first column with the percentage in the third column

#### SET 2

Correct rate: 90%

Difficulty: easy

The meaning of the question is the median of the unemployment rate in several countries where the two-year college degree or higher is greater than 15%. 2.5% 5.6% 6.2% 7.8% 8.8% Median 6.2%

## 17) C SET 2

Correct rate: 86%

Difficulty: easy

P: 5%/5% = 1 T: 12%/10% = 1.2 S: 8%/30% < 1 R: 26%/10% = 2.6Q: 49%/45% < 2

#### 18) A, D SET 2

Correct rate: 83%

Difficulty: easy

## 19) C SET 2 Corre

Correct rate: 90%

Difficulty: easy

#### 20) 21 SET 2 Correct rate: 90% Difficulty: easy

 $(x-1)^2 + x^2 + (x+1)^2 = 149 \implies x = 7$ 

6 + 7 + 8 = 21

#### Thanks