

Powerprep Plus 1 Quant Set 2 Answers

Shayesteh.ir

1) C

SET 2

Correct rate: 93%

Difficulty: easy

$$7 \times 10 = 70$$

$$70 - 28 = 42$$

2) C

SET 2

Correct rate: 93%

Difficulty: easy

- Add the same number to a group of numbers, without changing the variance

3) B

SET 2

Correct rate: 97%

Difficulty: easy

$$f(2) = 2$$

$$f\left(\frac{-1}{4}\right) = \frac{1}{\left|\frac{-1}{4}\right|} = 4$$

4) C

SET 2

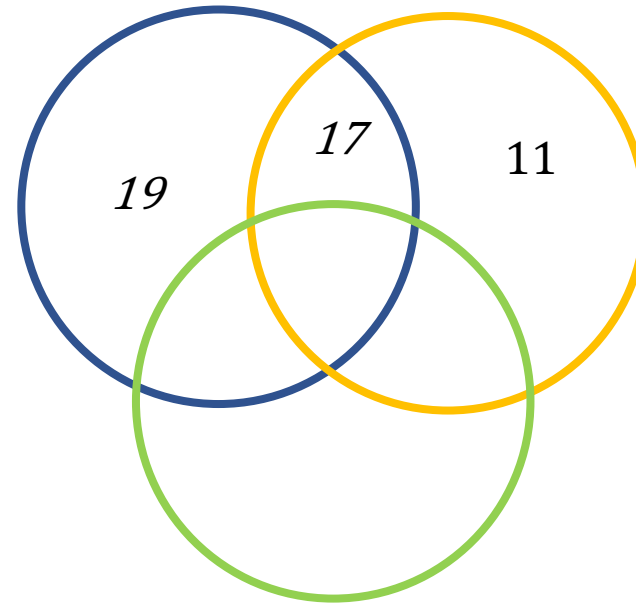
Correct rate: 79%

Difficulty: easy

$$36 - 17 = 19$$

$$28 - 17 = 11$$

$$11 + 19 = 30$$



5) D

SET 2

Correct rate: 94%

Difficulty: easy

$$X = -10$$

6) C

SET 2

Correct rate: 98%

Difficulty: easy

$$90 - x^\circ = 90 - y^\circ \implies y^\circ = x^\circ$$

7) B

SET 2

Correct rate: 37%

Difficulty: easy

$$p = \frac{1}{2}$$
$$A = \left(\frac{1}{2}\right)^n$$
$$B = \left(\frac{1}{2}\right)^{-n} = 2^n$$

8) C

SET 2

Correct rate: 98%

Difficulty: easy

$$\frac{6}{25} = \frac{24}{100}$$

9) C

SET 2

Correct rate: 96%

Difficulty: easy

$$\frac{0.4+0.8+1.2+2+y}{5} = 1 \Rightarrow y = 0.6$$

10) C

SET 2

Correct rate: 98%

Difficulty: easy

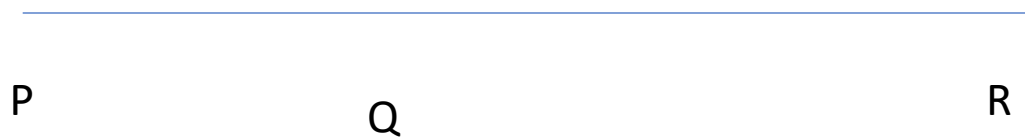
$$\begin{aligned} \text{Second term} &= \frac{(55 + 2)}{3} = 19 \\ \text{First term} &= \frac{(19 + 2)}{3} = 7 \end{aligned}$$

11) C,D

SET 2

Correct rate: 98%

Difficulty: easy



12)A

SET 2

Correct rate: 99%

Difficulty: easy

$$2 \times 3 \times 11 = 66 \text{ or } 1 \times 6 \times 11 = 66$$

$$2 + 3 + 11 = 16$$

13)D

SET 2

Correct rate: 99%

Difficulty: easy

$$600 \times 5\% = 30$$

$$30/300 = 10\%$$

14)E

SET 2

Correct rate: 93%

Difficulty: easy

$$260,341,000 \times (35.8 / 100) = 93,202,078 \text{ (approx 93 million)}$$

15)C

SET 2

Correct rate: 97%

Difficulty: easy

You don't need to calculate this question. The 50% of the total must be the median, that percentage? The first two are about 35.8%, and the 25-44 behind are 31%. They must include the median, so I'll go straight to C.

16)B

SET 2

Correct rate: 87%

Difficulty: easy

17)B, E

SET 2

Correct rate: 81%

Difficulty: easy

John's break=8:45, 9:30, 10:15, 11:00, 11:45, 12:30, 13:15, 14:00, 14:45, 15:30, 16:15

Paul's break=10:00, 11:00, 12:00, 13:00, 14:00, 15:00, 14:00

18)C

SET 2

Correct rate: 90%

Difficulty: easy

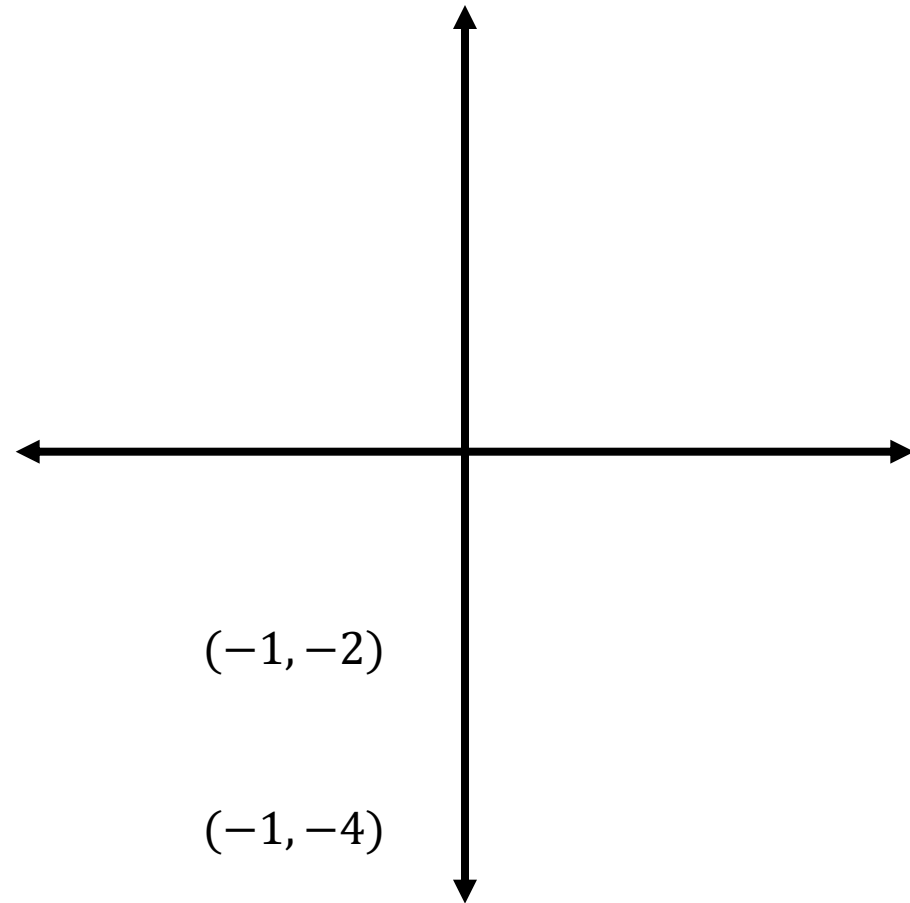
$$P = 8 + 2 + 8 + 2 = 20$$

$(-9, -2)$

$(-1, -2)$

$(-9, -4)$

$(-1, -4)$



19)C

SET 2

Correct rate: 97%

Difficulty: easy

$$3 \times 45 \times 4 = 540 \text{ min} = 9 \text{ hours}$$

$$\frac{55}{9} = 6.11 \cong 6.10$$

20)128

SET 2

Correct rate: 93%

Difficulty: easy

$$2^{2x} = 2^6 \Rightarrow x = 3$$

$$2^{2x-1} = 2^5 \Rightarrow x = 128$$

Thanks