DELHI PUBLIC SCHOOL, MIYAPUR

SECTION-C

2 points

16. $4x^2+4x+1-y^2$ can be factorized as

- ○ (A) (2x+1+y)(2x-1+y)
- ◉ (B) (2x+1+y)(2x+1-y)
- ○ (C) (2x-1+y)(2x+1-y)
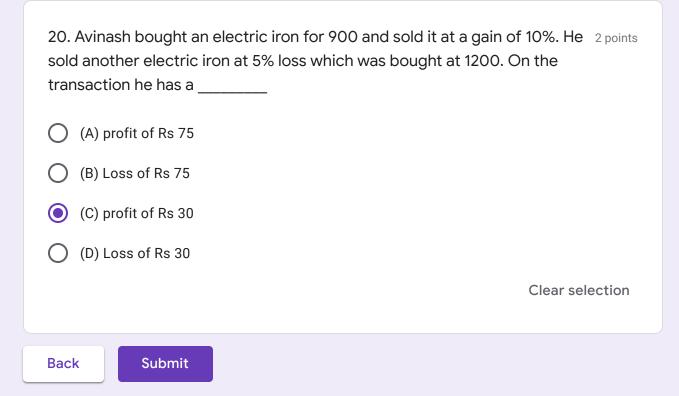- ○ (D) (2x+1+y)(2x+1+y)

Clear selection

2 points

17. The square root of $64-176y+121y^2$ is

- ○ (A) 8 – 11y
- ○ (B)11y-8
- ◉ (C) Both A and B
- ○ (D) None of these

Clear selection

18. For what value of "c" are the factors of $(m^2 - cm + \frac{81}{16})$ the same?

(A) $\frac{9}{2}$

(B) $\frac{9}{4}$

(C) $\frac{4}{9}$

(D) $\frac{2}{9}$

- ⦿ (A) Option a
- ◯ (B) Option b
- ◯ (C) Option c
- ◯ (D) Option d

Clear selection

19. In a factory, women are 35 % of all the workers, the rest of the workers being men. The number of men exceeds that of women by 252. The total number of workers in the factory are _____

- ◯ (A) 360
- ⦿ (B) 840
- ◯ (C) 725
- ◯ (D) 630

Clear selection

20. Avinash bought an electric iron for 900 and sold it at a gain of 10%. He 2 points
sold another electric iron at 5% loss which was bought at 1200. On the
transaction he has a _____

○ (A) profit of Rs 75

○ (B) Loss of Rs 75

◉ (C) profit of Rs 30

○ (D) Loss of Rs 30

Clear selection

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