

Power Up! Test Practice

22. A store is having a 25% off sale, and Abdulrahman has a coupon good for AED 10 off his total purchase. The function $f(x) = 0.75x - 10$ represents the final cost of an item that costs x dirhams after the discount and coupon are applied.

AED 5	AED 50
AED 20	AED 60
AED 35	AED 75
AED 40	AED 80

Select values to complete the function machine for the regular prices and sale prices of items A, B, C, and D.

Input A: AED 60

Output A: Input B:

Output B: AED 20

Input C: AED 20

Output C: Input D:

Output D: AED 50

$$\Rightarrow f(x) = 0.75x - 10 \Rightarrow$$

23. Lamis received a AED 25 gift card to an online music store. The cost of purchasing one song is AED 0.95. Complete the table to show the balance remaining on Lamis' gift card $n(s)$ after purchasing s songs.

Number of Songs s	Balance Remaining $n(s)$
2	<input type="text"/>
4	<input type="text"/>
5	<input type="text"/>
8	<input type="text"/>
10	<input type="text"/>