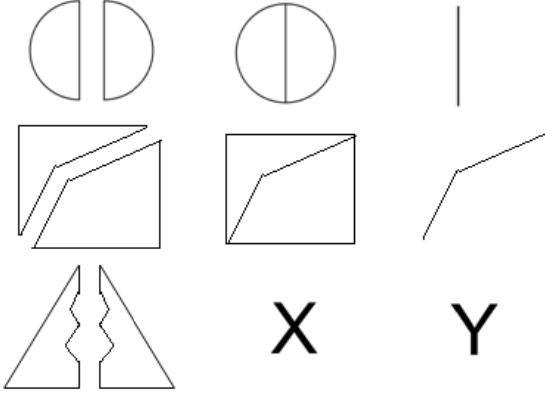
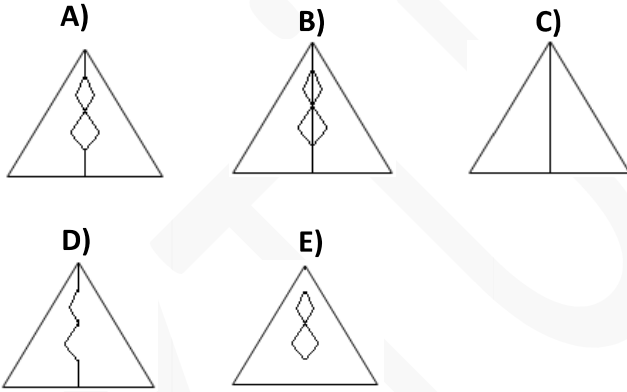


## TEMEL ÖĞRENME BECERİLERİ TESTİ / THE BASIC LEARNING SKILLS TEST

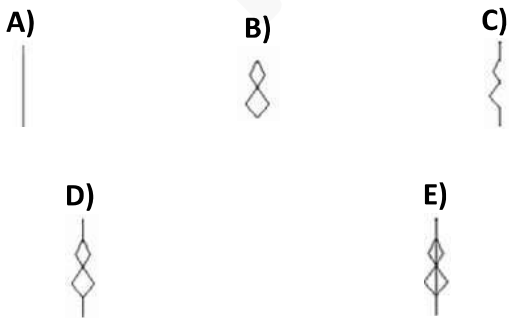
13 ve 14 numaralı soruları aşağıdaki şekilde ilişkiye göre cevaplayınız.



13. X = ?



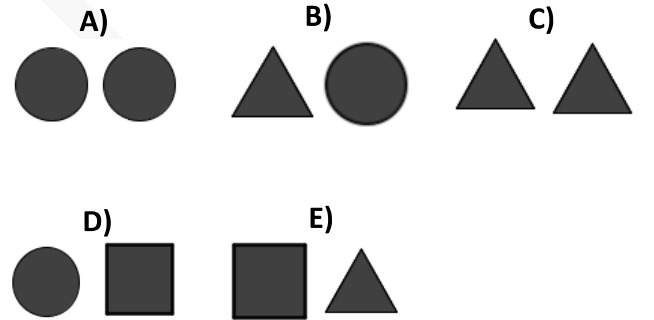
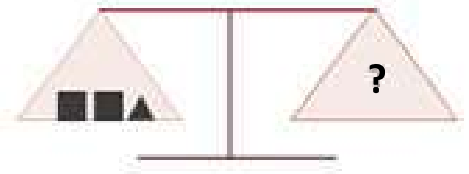
14. Y = ?



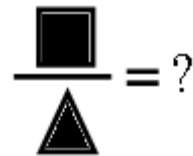
15 ve 16 numaralı soruları aşağıda verilen denge konumundaki terazilere göre cevaplayınız.



15.



16.



- A)  $\frac{1}{2}$     B)  $\frac{2}{3}$     C) 1    D)  $\frac{3}{2}$     E) 2

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46.

$$\left[ \left( -\frac{1}{2} \right)^3 \right]^{-2} = ?$$

- A) 64    B) 16    C)  $\frac{1}{2}$     D) -16    E) -64

47.

$$4^x = 9 \Rightarrow 2^{x+2} - 2^{2x-1} = ?$$

- A) 17    B)  $\frac{15}{2}$     C)  $\frac{49}{3}$     D)  $\frac{53}{4}$     E)  $\frac{63}{4}$

48.

$$\sqrt{32} + 2\sqrt{8} - 2\sqrt{18} = ?$$

- A)  $\sqrt{2}$     B)  $2\sqrt{2}$     C)  $3\sqrt{2}$     D)  $-2\sqrt{2}$     E)  $-\sqrt{2}$

49.

$$\sqrt{(2-\sqrt{3})^2} + \sqrt{(\sqrt{3}-2)^2} = ?$$

- A) 4    B)  $2\sqrt{3}$     C)  $-2\sqrt{3}$     D)  $4-2\sqrt{3}$     E) 0

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70.

$$f(x) = \frac{2x-1}{x+1} \Rightarrow \lim_{x \rightarrow 2} \frac{f(x) - f(2)}{x-2} = ?$$

- A)  $\frac{1}{3}$     B)  $\frac{1}{2}$     C)  $\frac{4}{5}$     D) 1    E)  $\frac{3}{2}$

71.

$$\int_1^e \frac{\ln x}{x} dx = ?$$

- A) 0    B)  $\frac{1}{2}$     C) 1    D)  $\frac{3}{2}$     E) 2

72.

$$\int_0^{\frac{\pi}{4}} \frac{dx}{\cot x} = ?$$

- A)  $\ln \sqrt{2}$     B) 1    C)  $\sqrt{2}$     D)  $\frac{\ln \sqrt{3}}{2}$     E)  $\ln 5$

73.

$$\sin x + \cos x = \frac{5}{4} \Rightarrow \sin 2x = ?$$

- A)  $\frac{1}{4}$     B)  $\frac{1}{5}$     C)  $\frac{9}{16}$     D)  $\frac{4}{9}$     E)  $\frac{3}{25}$