

Mérleg-elv alapfeladatok (1)

1. Oldd meg az egyenleteket a minta alapján!

a) $8x + 55 = 167$ - 55 $8x = 112$: 8 $x = 14$	b) $-10 + 2x = 18$ + 10 $2x = 28$: 2 $x = 14$	c) $5x - 14 = 56$ + 14 $5x = 70$: 5 $x = 14$
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Feladatok:

(1) $-24 + 9x = 84$ $9x =$ $x =$	(2) $-27 + 4x = 17$ $4x =$ $x =$	(3) $3x + 30 = 75$ $3x =$ $x =$
(4) $-71 + 7x = 48$ $7x =$ $x =$	(5) $12x - 94 = 146$ $12x =$ $x =$	(6) $-7 + 3x = 29$ $3x =$ $x =$
(7) $8x + 49 = 177$ $8x =$ $x =$	(8) $-44 + 6x = 82$ $6x =$ $x =$	(9) $-52 + 15x = 113$ $15x =$ $x =$

2. Oldd meg az egyenleteket a minta alapján!

a) $12x - 52 = -196$ + 52 $12x = -144$: 12 $x = -12$	b) $-3x + 15 = -21$ - 15 $-3x = -36$:(-3) $x = 12$	c) $-2x + 5 = 27$ - 5 $-2x = 22$:(-2) $x = -11$
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Feladatok:

(1) $10x - 55 = 145$ $10x =$ $x =$	(2) $51 = -19 - 7x$ $= -7x$ $= x$	(3) $-90 = 134 + 14x$ $= 14x$ $= x$
(4) $-16 = 5x + 59$ $= 5x$ $= x$	(5) $89 - 10x = 249$ $-10x =$ $x =$	(6) $7 = -27 - 2x$ $= -2x$ $= x$
(7) $-120 + 8x = -296$ $8x =$ $x =$	(8) $-65 - 7x = 33$ $-7x =$ $x =$	(9) $-268 = -12x - 52$ $= -12x$ $= x$

3. Oldd meg az egyenleteket a minta alapján!

$$\begin{aligned} \text{a) } -32 + 12x &= 10x + 40 & /- 10x \\ -32 + \boxed{2x} &= 40 & /+ 32 \\ \boxed{2x} &= \boxed{72} & :2 \\ x &= 36 \end{aligned}$$

$$\begin{aligned} \text{b) } -161 - x &= 119 - 11x & /+ 11x \\ -161 + \boxed{10x} &= 119 & /+ 161 \\ \boxed{10x} &= \boxed{280} & :10 \\ x &= 28 \end{aligned}$$

Feladatok:

$$\begin{aligned} (1) \quad -59 + 11x &= 73 + 7x & /- 7x \\ -59 + \boxed{} &= 73 & /+ 59 \\ \boxed{} &= \boxed{} & \boxed{} \\ x &= \end{aligned}$$

$$\begin{aligned} (2) \quad -21 + 4x &= 3x + 12 & /- 3x \\ -21 + \boxed{} &= 12 & /+ 21 \\ \boxed{} &= \boxed{} & \boxed{} \\ x &= \end{aligned}$$

$$\begin{aligned} (3) \quad -210 - 5x &= -13x + 62 & /+ 13x \\ -210 + \boxed{} &= 62 & /+ 210 \\ \boxed{} &= \boxed{} & \boxed{} \\ x &= \end{aligned}$$

$$\begin{aligned} (4) \quad -4x - 24 &= 40 - 6x & /+ 6x \\ \boxed{} - 24 &= 40 & /+ 24 \\ \boxed{} &= \boxed{} & \boxed{} \\ x &= \end{aligned}$$

$$\begin{aligned} (5) \quad 9x - 111 &= -x + 159 & /+ x \\ \boxed{} - 111 &= 159 & /+ 111 \\ \boxed{} &= \boxed{} & \boxed{} \\ x &= \end{aligned}$$

$$\begin{aligned} (6) \quad 10x - 128 &= 3x + 54 & /- 3x \\ \boxed{} - 128 &= 54 & /+ 128 \\ \boxed{} &= \boxed{} & \boxed{} \\ x &= \end{aligned}$$