

Balance Scales

Advanced — ANSWER KEY

Bags on BOTH pans. Take bags off both sides.

Think: If both pans have X, remove one X from each side — the scale still balances.

1. How heavy is the bag? Find X so the scale balances.

1)	$\boxed{X + X + X + 5} = \boxed{X + X + 7}$	2)	$\boxed{X + X + 8} = \boxed{30}$
	$X = 2$		$X = 11$

3)	$\boxed{X + X + X + X + 3} = \boxed{X + 24}$	4)	$\boxed{X + X + 9} = \boxed{X + 15}$
	$X = 7$		$X = 6$

5)	$\boxed{X + X + 3} = \boxed{X + 11}$	6)	$\boxed{X + X + 10} = \boxed{28}$
	$X = 8$		$X = 9$