

反射テスト 1次方程式 小数 02

1. 次の方程式を解け。(S級45秒, A級1分20秒, B級2分40秒, C級4分)

(1) $0.4x = 0.6$

(2) $0.02x - 4.5 = 2.3$

(3) $0.15x + 4 = 5.4 - 0.2x$

(4) $0.25(x - 1) = 0.4(x + 2)$

2. 次の方程式を解け。(S級 55 秒, A級 1 分 35 秒, B級 3 分, C級 5 分)

(1) $0.8x = -0.6$

(2) $0.03x - 4.9 = 2.3$

(3) $0.1x + 2.9 = 5 - 0.25x$

(4) $0.15(x - 3) = 0.4(x + 2)$

反射テスト 1次方程式 小数 02 解答解説

1. 次の方程式を解け。(S級45秒, A級1分20秒, B級2分40秒, C級4分)

(1) $0.4x = 0.6$

$$0.4x \times 10 = 0.6 \times 10 \quad \leftarrow \text{両辺} \times 10$$

$$4x = 6$$

$$2x = 3$$

$$x = \frac{3}{2}$$

(2) $0.02x - 4.5 = 2.3$

$$(0.02x - 4.5) \times 100 = 2.3 \times 100 \quad \leftarrow \text{両辺} \times 100$$

$$2x - 450 = 230$$

$$2x = 230 + 450$$

$$2x = 680$$

$$x = 340$$

(3) $0.15x + 4 = 5.4 - 0.2x$

$$15x + 400 = 540 - 20x \quad \leftarrow \times 100$$

$$15x + 20x = 540 - 400$$

$$35x = 140$$

$$x = 4$$

(4) $0.25(x - 1) = 0.4(x + 2)$

$$0.25x - 0.25 = 0.4x + 0.8 \quad \leftarrow () \text{の展開}$$

$$25x - 25 = 40x + 80 \quad \leftarrow \times 100$$

$$25x - 40x = 80 + 25$$

$$-15x = 105$$

$$-3x = 21$$

$$x = -7$$

2. 次の方程式を解け。(S級55秒, A級1分35秒, B級3分, C級5分)

(1) $0.8x = -0.6$

$$0.8x \times 10 = -0.6 \times 10 \quad \leftarrow \text{両辺} \times 10$$

$$8x = -6$$

$$4x = -3$$

$$x = -\frac{3}{4}$$

(2) $0.03x - 4.9 = 2.3$

$$(0.03x - 4.9) \times 100 = 2.3 \times 100 \quad \leftarrow \text{両辺} \times 100$$

$$3x - 490 = 230$$

$$3x = 230 + 490$$

$$3x = 720$$

$$x = 240$$

(3) $0.1x + 2.9 = 5 - 0.25x$

$$10x + 290 = 500 - 25x \quad \leftarrow \times 100$$

$$10x + 25x = 500 - 290$$

$$35x = 210$$

$$x = 6$$

(4) $0.15(x - 3) = 0.4(x + 2)$

$$0.15x - 0.45 = 0.4x + 0.8 \quad \leftarrow () \text{の展開}$$

$$15x - 45 = 40x + 80 \quad \leftarrow \times 100$$

$$15x - 40x = 80 + 45$$

$$-25x = 125$$

$$-5x = 25$$

$$x = -5$$