

Solve an equation needing expansion first

NAME	DATE	SCORE / 10
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1 Solve for x : $-3(2x - 9) = 69$

2 Leo buys 3 shirts that each cost x dollars, with \$5 off each shirt, and pays \$54 in all. The equation $3(x - 5) = 54$ shows this. What is the price of one shirt before the money off, in dollars?

3 Cleo solved $3(x - 9) = 15$ in the steps below. Which step is the first one that is wrong?

Step 1: $3x - 9 = 15$

Step 2: $3x = 24$

Step 3: $x = 8$

☐ Step 1 ☐ Step 2 ☐ Step 3

4 Solve for x : $5(3x - 2) = 5$

5 Ivy buys 5 shirts that each cost x dollars, with \$2 off each shirt, and pays \$140 in all. The equation $5(x - 2) = 140$ shows this. What is the price of one shirt before the money off, in dollars?

- 6** Emma solved $5(x - 15) = 15$ in the steps below. Which step is the first one that is wrong?

Step 1: $5x - 75 = 15$

Step 2: $5x = 90$

Step 3: $x = 85$

☐ Step 1 ☐ Step 2 ☐ Step 3

- 7** Solve for x : $-6(x + 5) + 10 = -68$

- 8** 5 friends each buy a ticket and a \$3 drink. They pay \$70 in all. The equation $5(t + 3) = 70$ shows this, where t is the price of one ticket, in dollars. What is the price of one ticket, in dollars?

- 9** Solve for x : $4(x + 5) = 44$

- 10** Solve for x : $4(x - 6) - 6 = 2$

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1 -7

3 Step 1

5 30

7 8

9 6

2 23

4 1

6 Step 3

8 11

10 8