

Solve an equation needing expansion first

NAME	DATE	SCORE
		/ 10

1 Solve for x : $-5(x - 8) = 10$

2 Ana buys 5 shirts that each cost x dollars, with \$5 off each shirt, and pays \$65 in all. The equation $5(x - 5) = 65$ shows this. What is the price of one shirt before the money off, in dollars?

3 Noah solved $4(x - 12) = 16$ in the steps below. Which step is the first one that is wrong?

Step 1: $4x - 48 = 16$

Step 2: $4x = 64$

Step 3: $x = 60$

☐ Step 1 ☐ Step 2 ☐ Step 3

4 Solve for x : $5(2x - 4) = -30$

5 Ben buys 4 shirts that each cost x dollars, with \$3 off each shirt, and pays \$40 in all. The equation $4(x - 3) = 40$ shows this. What is the price of one shirt before the money off, in dollars?

6 Ana solved $3(x - 6) = 12$ in the steps below. Which step is the first one that is wrong?

Step 1: $3x - 18 = 12$

Step 2: $3x = 30$

Step 3: $x = 27$

☐ Step 1 ☐ Step 2 ☐ Step 3

7 Solve for x : $4(2x + 2) = 16$

8 4 friends each buy a ticket and a \$4 drink. They pay \$56 in all. The equation $4(t + 4) = 56$ 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 : $-4(x + 1) - 3 = -43$

10 Solve for x : $6(x + 9) + 7 = 25$

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1 6

3 Step 3

5 13

7 1

9 9

2 18

4 -1

6 Step 3

8 10

10 -6