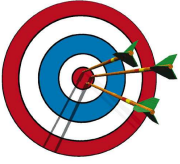


## Unit 2.4



### Variables on Both = Sides

Today's Learning Targets:

2.4 I can solve a linear equation with variables on both sides.

2.6 I can write and solve equations for real-life situations.

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#### Steps for solving equations:

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

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$$-7x + 4 = -2x + 24$$



Steps for solving equations:

1. Distribute (if needed)
2. Combine like terms (if needed)
3. Get variables on one side, constants on the other
4. Solve for x.
5. Check answer (in original problem)

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## Unit 2.4

Steps for solving equations:

1. Distribute (if needed)
2. Combine like terms (if needed)
3. Get variables on one side, constants on the other
4. Solve for  $x$ .
5. Check answer (in original problem)

$$5(x + 4) = x + 2x + 6$$



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For the school field trip to Cedar Point it costs \$50 for every student's ticket. Students are charged \$15 per person for the bus. Cedar Point also charges a \$100 processing fee for large groups. If Coopersville paid \$9,850 for the whole trip, how many students went?

- 1.
- 2.
- 3.



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# Compare

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## Unit 2.4

AMAZON charges \$4 per movie rental. If you become an AMAZON PRIME member for \$99, rentals are only \$1. Write and solve an equation to determine the number of movies for which **the two costs would be the same**.

1.

2.

3.

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Terry wants to hire a painter to paint her house. Painters Plus charges \$360 plus \$12 per hour. Davis & Sons charges \$279 plus \$15 per hour. Write and solve an equation to determine the number of hours for which the two costs would be the same.

1.

2.

3.

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