Understand Solutions to Equations

David says that he can apply the commutative and

Prerequisite: How can you use the properties of operations to write equivalent expressions?



Use three of the terms below to fill in the two

Write a story that you could represent with the

distributive propr Is he correct? Exp

Study the example problem showing how to write equivalent expressions. Then solve problems 1–8.

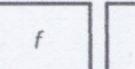
Example

Gail plants 3 pots of roses and 2 pots of tulips. The beau ed vem mist does a located an expression for the total number of flowers. Simplify the expression to create an equivalent expression.

You can use math tiles to represent the problem.

Roses





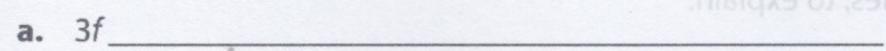
Tulips



Add to find the total number of flowers. An expression for the total number of flowers is 3f + 2f. Then simplify.

$$3f + 2f = f(3 + 2) = 5f$$

- Look at the example. What does f represent?

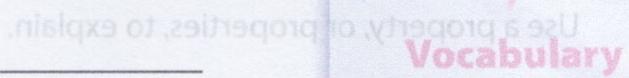


c.
$$3f + 2f$$

How was the distributive property used to create an expression that is equivalent to 3f + 2f?

the same power.

Constants are like x and -4x



like terms terms in an expression that have the same variable raised to the same power.

XOE + 24 of Constants are like terms.

X and -4x

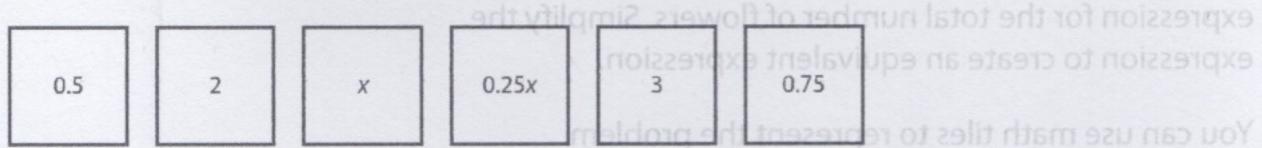
1 and 1.5

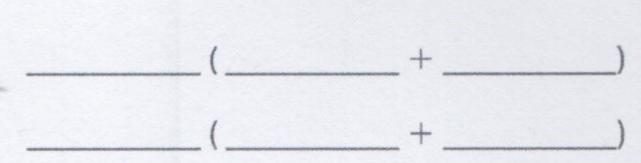
X² and 8x²

David says that he can apply the commutative and distributive properties to 7s + 8 + 5s to get 12s + 8. Is he correct? Explain.

Study the example problem showing how to write equivalent expressions. Then solve problems 1-8.

Use three of the terms below to fill in the two expressions. Each term may be used only once. Both og 2 bns zero to ztog 8 stralg list of your expressions must be equivalent to 0.5x + 1.5.dt at tog dase ni zewolf to redmun





Write a story that you could represent with the expression 8b + 4b - 2. Then write an expression that is equivalent to 8b + 4b - 2.

Look at the example. What does frepresent?

Is d(10 + 20) equivalent to $d \times 10 + 20 \times d$? Use a property, or properties, to explain.

Use the distributive property to write an expression that is equivalent to 45 + 30x.

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Lesson 18 Understand Solutions to Equations