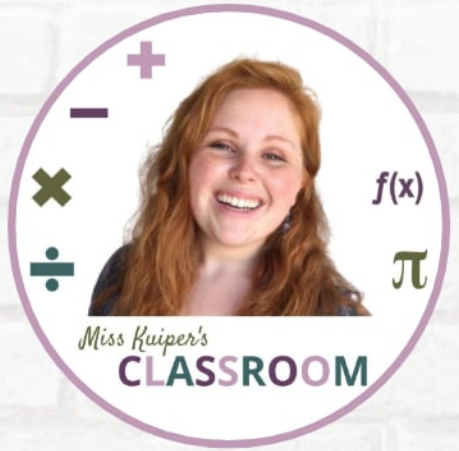
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johanna@misskuipersclassroom.com



8th Grade Math Activities

Algebra 1 Activities

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Directions

Printable Worksheet

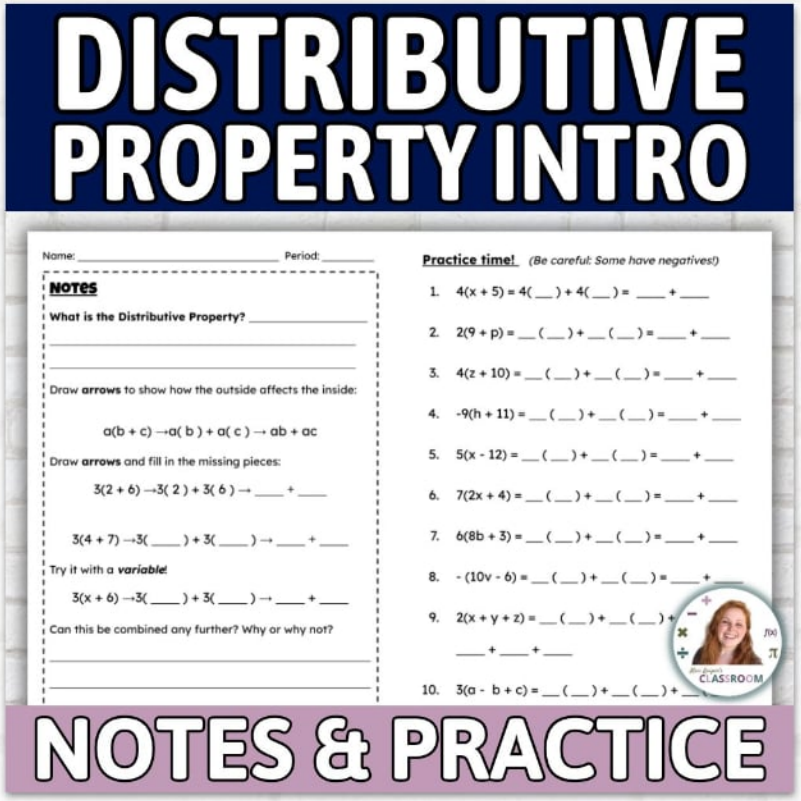
This worksheet is meant to be printed, doubles-sided, and cut into two worksheets. **Select the double-sided option: "Print both sides flip pages on short edge."* In my classroom, I use this in my interactive notebook. Every student gets a worksheet that we tape into our notebook. Plus it is a great scaffold for students who have trouble writing.

Digital Worksheet

Here are 2 ways I have used this digitally:

1. If you use a digital / online notebook, students can copy and paste the slides into their notebook.
2. It can be given as a worksheet by itself.

Digital Activity



When you click the button, it will open a new tab and ask you to create a copy. That copy will be what you can add to your Google Classroom, send to your students, or work on it with your kids!

Notes & Practice

Notes Only

Practice Only

Questions? I am an email away! Email me here: johanna@misskuipersclassroom.com

Miss Kuiper's CLASSROOM

Name: _____ Period: _____

NOTES

What is the Distributive Property? _____

_____

_____

Draw **arrows** to show how the outside affects the inside:

$$a(b + c) \rightarrow a(\ b\ ) + a(\ c\ ) \rightarrow ab + ac$$

Draw **arrows** and fill in the missing pieces:

$$3(2 + 6) \rightarrow 3(\ 2\ ) + 3(\ 6\ ) \rightarrow ____ + ____$$

$$3(4 + 7) \rightarrow 3(\ ____\ ) + 3(\ ____\ ) \rightarrow ____ + ____$$

Try it with a ***variable***!

$$3(x + 6) \rightarrow 3(\ ____\ ) + 3(\ ____\ ) \rightarrow ____ + ____$$

Can this be combined any further? Why or why not?

_____

_____

_____

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Name: _____ Period: _____

NOTES

What is the Distributive Property? _____

_____

_____

Draw arrows to show how the outside affects the inside:

a(b + c) →a(b) + a(c) → ab + ac

Draw arrows and fill in the missing pieces:

3(2 + 6) →3(2) + 3(6) → _____ + _____

3(4 + 7) →3(_____) + 3(_____) → _____ + _____

Try it with a variable!

3(x + 6) →3(_____) + 3(_____) → _____ + _____

Can this be combined any further? Why or why not?

_____

_____

_____

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Practice time! *(Be careful: Some have negatives!)*

1. $4(x + 5) = 4(___) + 4(___) = ____ + ____$
2. $2(9 + p) = ___(___) + ___(___) = ____ + ____$
3. $4(z + 10) = ___(___) + ___(___) = ____ + ____$
4. $-9(h + 11) = ___(___) + ___(___) = ____ + ____$
5. $5(x - 12) = ___(___) + ___(___) = ____ + ____$
6. $7(2x + 4) = ___(___) + ___(___) = ____ + ____$
7. $6(8b + 3) = ___(___) + ___(___) = ____ + ____$
8. $-(10v - 6) = ___(___) + ___(___) = ____ + ____$
9. $2(x + y + z) = ___(___) + ___(___) + ___(___) = ____ + ____ + ____$
10. $3(a - b + c) = ___(___) + ___(___) + ___(___) = ____ + ____ + ____$

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Practice time! *(Be careful: Some have negatives!)*

1. $4(x + 5) = 4(___) + 4(___) = ____ + ____$
2. $2(9 + p) = ___(___) + ___(___) = ____ + ____$
3. $4(z + 10) = ___(___) + ___(___) = ____ + ____$
4. $-9(h + 11) = ___(___) + ___(___) = ____ + ____$
5. $5(x - 12) = ___(___) + ___(___) = ____ + ____$
6. $7(2x + 4) = ___(___) + ___(___) = ____ + ____$
7. $6(8b + 3) = ___(___) + ___(___) = ____ + ____$
8. $-(10v - 6) = ___(___) + ___(___) = ____ + ____$
9. $2(x + y + z) = ___(___) + ___(___) + ___(___) = ____ + ____ + ____$
10. $3(a - b + c) = ___(___) + ___(___) + ___(___) = ____ + ____ + ____$

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Name: _____ Period: _____

Notes

What is the Distributive Property? _____

_____

_____

Draw **arrows** to show how the outside affects the inside:

$a(b + c) \rightarrow a(\ b\ ) + a(\ c\ ) \rightarrow ab + ac$

Draw **arrows** and fill in the missing pieces:

$3(2 + 6) \rightarrow 3(\ 2\ ) + 3(\ 6\ ) \rightarrow$ _____ + _____

$3(4 + 7) \rightarrow 3($ _____ $) + 3($ _____ $) \rightarrow$ _____ + _____

Try it with a ***variable***!

$3(x + 6) \rightarrow 3($ _____ $) + 3($ _____ $) \rightarrow$ _____ + _____

Can this be combined any further? Why or why not?

_____

_____

_____

Practice time! *(Be careful: Some have negatives!)*

1. $4(x + 5) = 4(\ __\ ) + 4(\ __\ ) =$ _____ + _____
2. $2(9 + p) =$ ___ (___) + ___ (___) = _____ + _____
3. $4(z + 10) =$ ___ (___) + ___ (___) = _____ + _____
4. $-9(h + 11) =$ ___ (___) + ___ (___) = _____ + _____
5. $5(x - 12) =$ ___ (___) + ___ (___) = _____ + _____
6. $7(2x + 4) =$ ___ (___) + ___ (___) = _____ + _____
7. $6(8b + 3) =$ ___ (___) + ___ (___) = _____ + _____
8. $-(10v - 6) =$ ___ (___) + ___ (___) = _____ + _____
9. $2(x + y + z) =$ ___ (___) + ___ (___) + ___ (___) = _____ + _____ + _____
10. $3(a - b + c) =$ ___ (___) + ___ (___) + ___ (___) = _____ + _____ + _____

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{Distributive Property} Name: **ANSWER KEY**

Notes

What is the Distributive Property? When a term is being multiplied by a sum, you multiply the term by each component of the sum separately and then add them together.

Draw **arrows** to show how the outside affects the inside:

$a(b + c) \rightarrow a(\ b\ ) + a(\ c\ ) \rightarrow ab + ac$

Draw **arrows** and fill in the missing pieces:

$3(2 + 6) \rightarrow 3(\ 2\ ) + 3(\ 6\ ) \rightarrow 6 + 18$

$3(4 + 7) \rightarrow 3(\ 4\ ) + 3(\ 7\ ) \rightarrow 12 + 21$

Try it with a ***variable***!

$3(x + 6) \rightarrow 3(\ x\ ) + 3(\ 6\ ) \rightarrow 3x + 18$

Can this be combined any further? Why or why not?

No because 3x and 18 are not like terms and therefore cannot be combined.

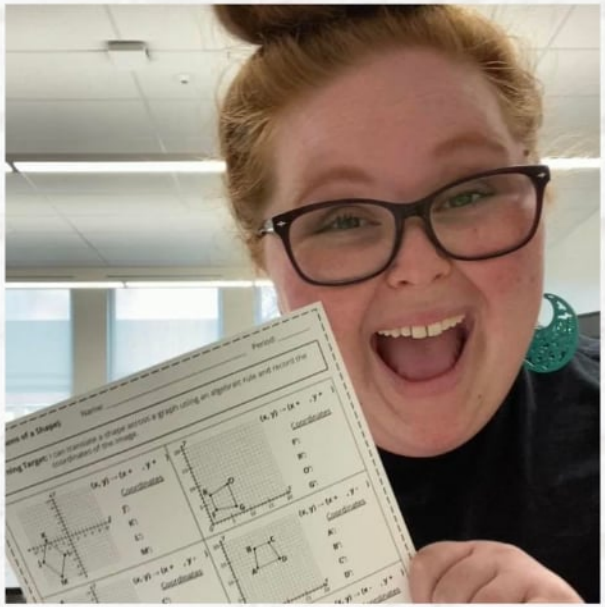
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Practice time! *(Be careful: Some have negatives!)*

1. $4(x + 5) = 4(\ ___\ ) + 4(\ ___\ ) = 4x+20$
2. $2(9 + p) = ___(\ ___\ ) + ___(\ ___\ ) = 18+2p$
3. $4(z + 10) = ___(\ ___\ ) + ___(\ ___\ ) = 4z+40$
4. $-9(h + 11) = ___(\ ___\ ) + ___(\ ___\ ) = -9h - 99$
5. $5(x - 12) = ___(\ ___\ ) + ___(\ ___\ ) = 5x-60$
6. $7(2x + 4) = ___(\ ___\ ) + ___(\ ___\ ) = 14x+28$
7. $6(8b + 3) = ___(\ ___\ ) + ___(\ ___\ ) = 48b+18$
8. $-(10v - 6) = ___(\ ___\ ) + ___(\ ___\ ) = -10v+6$
9. $2(x + y + z) = ___(\ ___\ ) + ___(\ ___\ ) + ___(\ ___\ ) =$ $2x+2y+2z$
10. $3(a - b + c) = ___(\ ___\ ) + ___(\ ___\ ) + ___(\ ___\ ) =$ $3a-3b+3c$

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I'm Johanna and I help math teachers like you engage their students academically so they can deeply understand and love math! I hope you and your students enjoy this activity.

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