MEGL Outreach
Fall 2017

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leaving the ivory tower and going into the community...

to share math with local K-12 students and educators...

to foster excitement for and interest in mathematics...

to take students and teachers outside of the typical curriculum,
and give them a glimpse of the world of mathematics that we call home.

How do we do it?

We bring math activities into local K-12 classrooms, libraries, and other educational venues.

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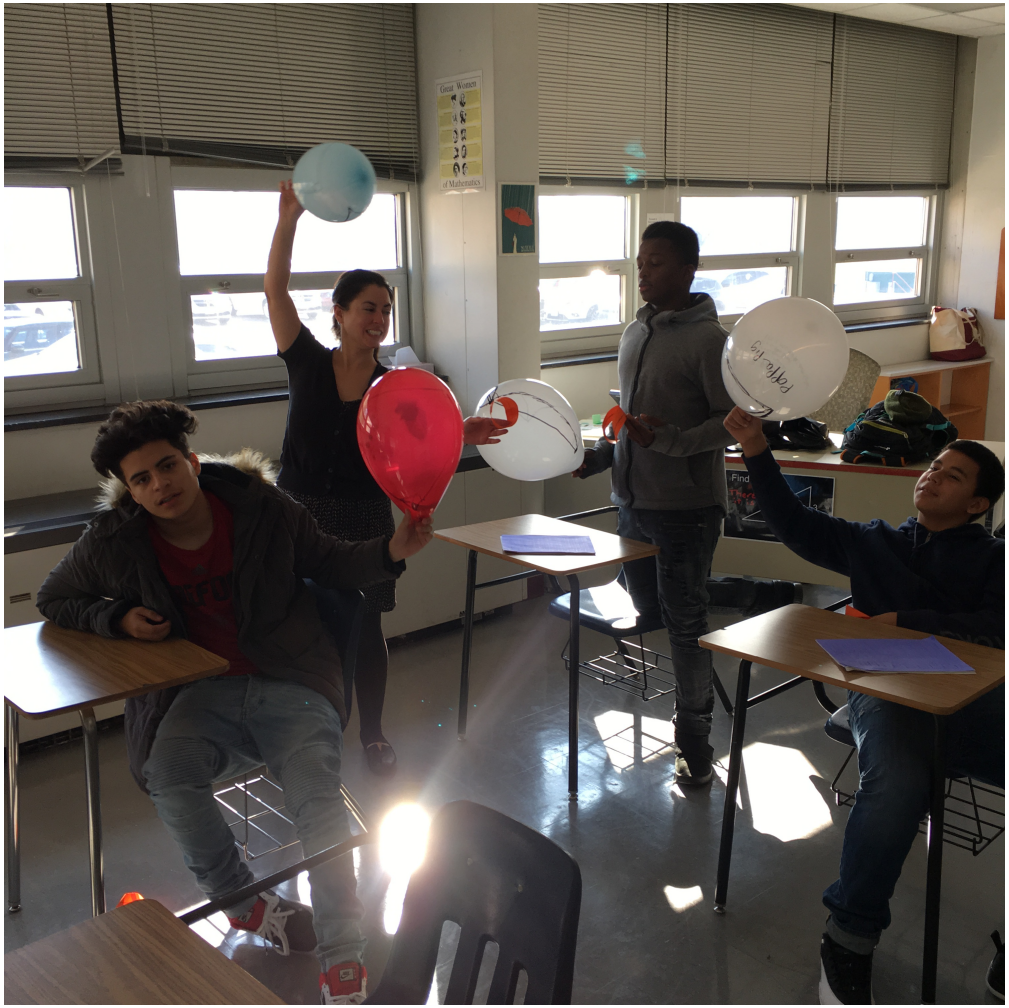
The activities are just that: *active*. The students engage with and experience the mathematics. Here are some examples:

How do we do it?

Polynomial growth!

How do we do it?

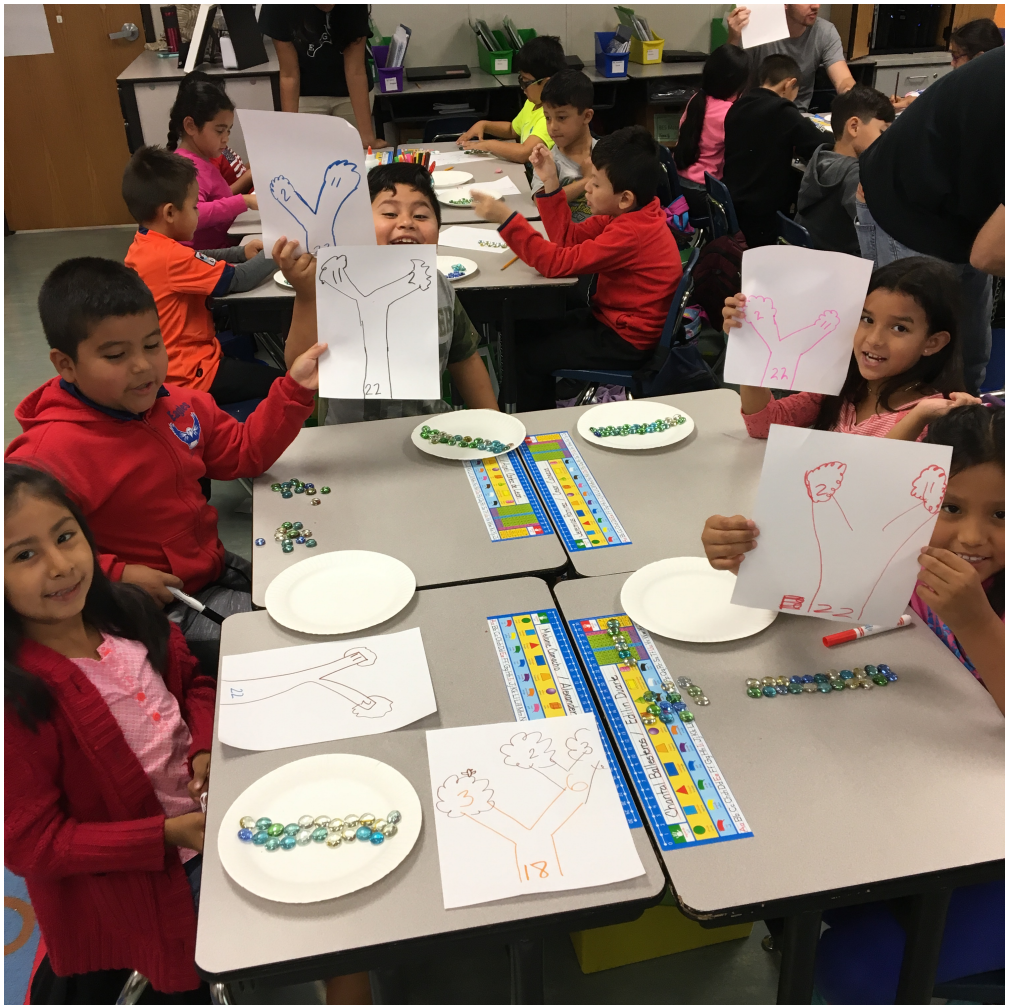


Spherical geometry!

How do we do it?

Symmetry groups!

How do we do it?



Prime factorization!

Fall 2017

So far this semester we visited

Fall 2017

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- 13 elementary schools,

Fall 2017

So far this semester we visited

- 13 elementary schools,
- 2 middle schools,

Fall 2017

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- 13 elementary schools,
- 2 middle schools,
- 5 high schools,

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We have scheduled

- 3 more visits before break
- and 8 visits so far for the spring.

Fall 2017

And a new activity is in the works:

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Playground of the Infinite

And a new activity is in the works:

Playground of the Infinite

Here is a (very wet clay) version of the slides that provide the framework for the activity.

Some finite collections.

Some finite collections.

Fingers on this hand

Some finite collections.

Fingers on this hand

Legos in this pile

Some finite collections.

Fingers on this hand

Legos in this pile

Jelly beans in this jar

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Fingers on this hand

Legos in this pile

Jelly beans in this jar

Grains of sand on this beach

Some finite collections.

Fingers on this hand

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Some infinite collections.

Some infinite collections.

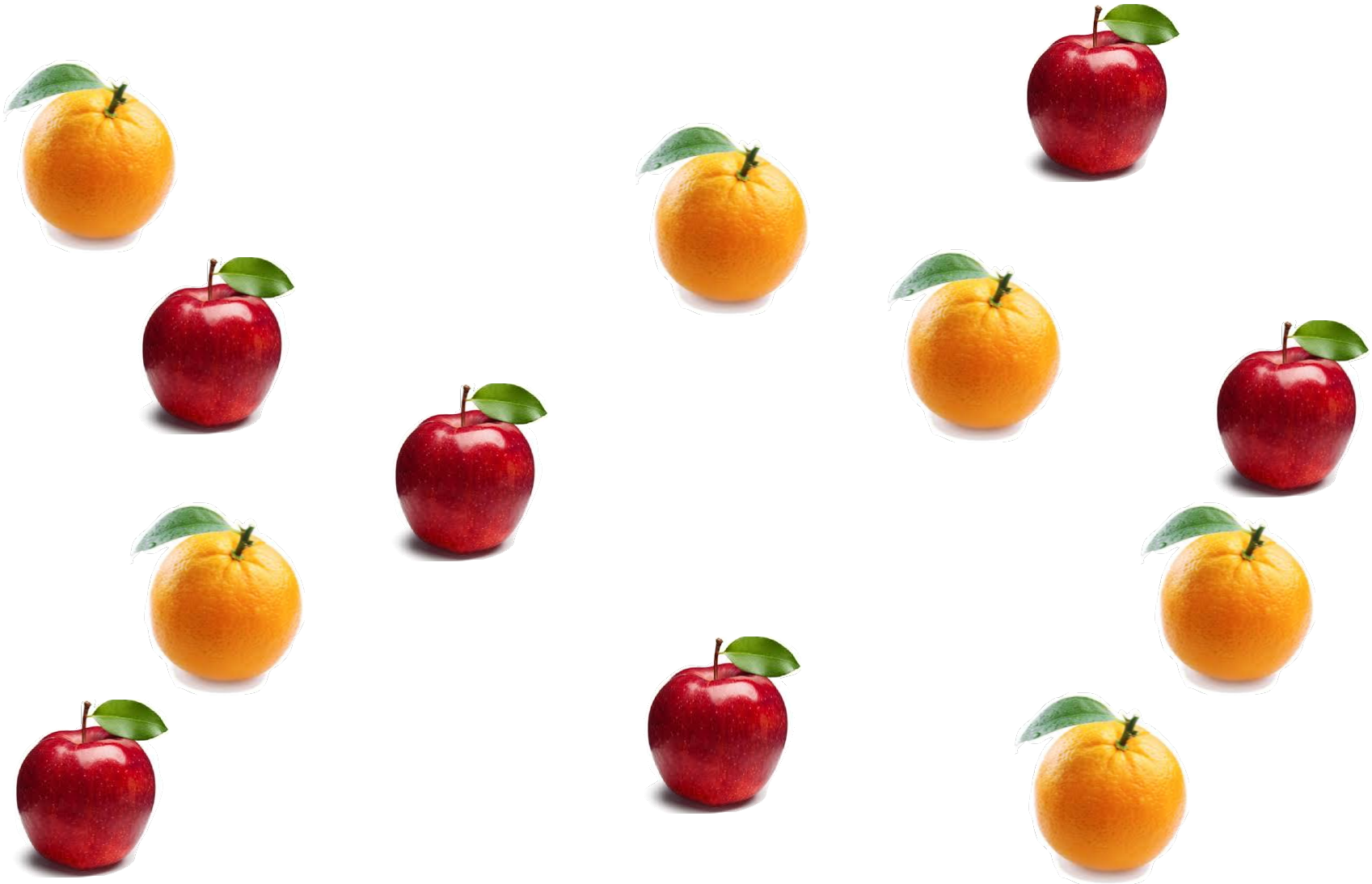
Numbers

Some infinite collections.

Numbers

Books that can be written

Counting without counting



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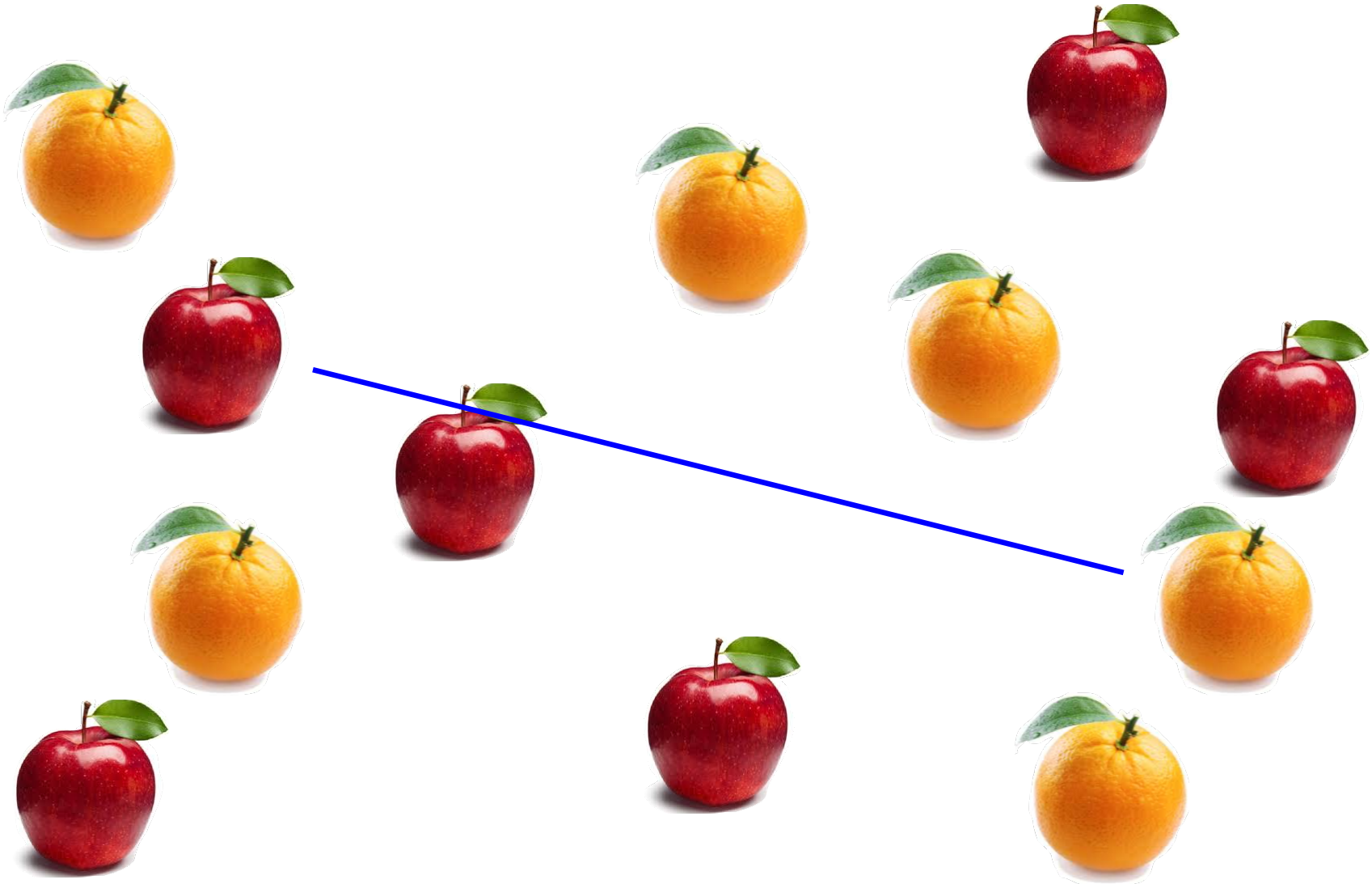

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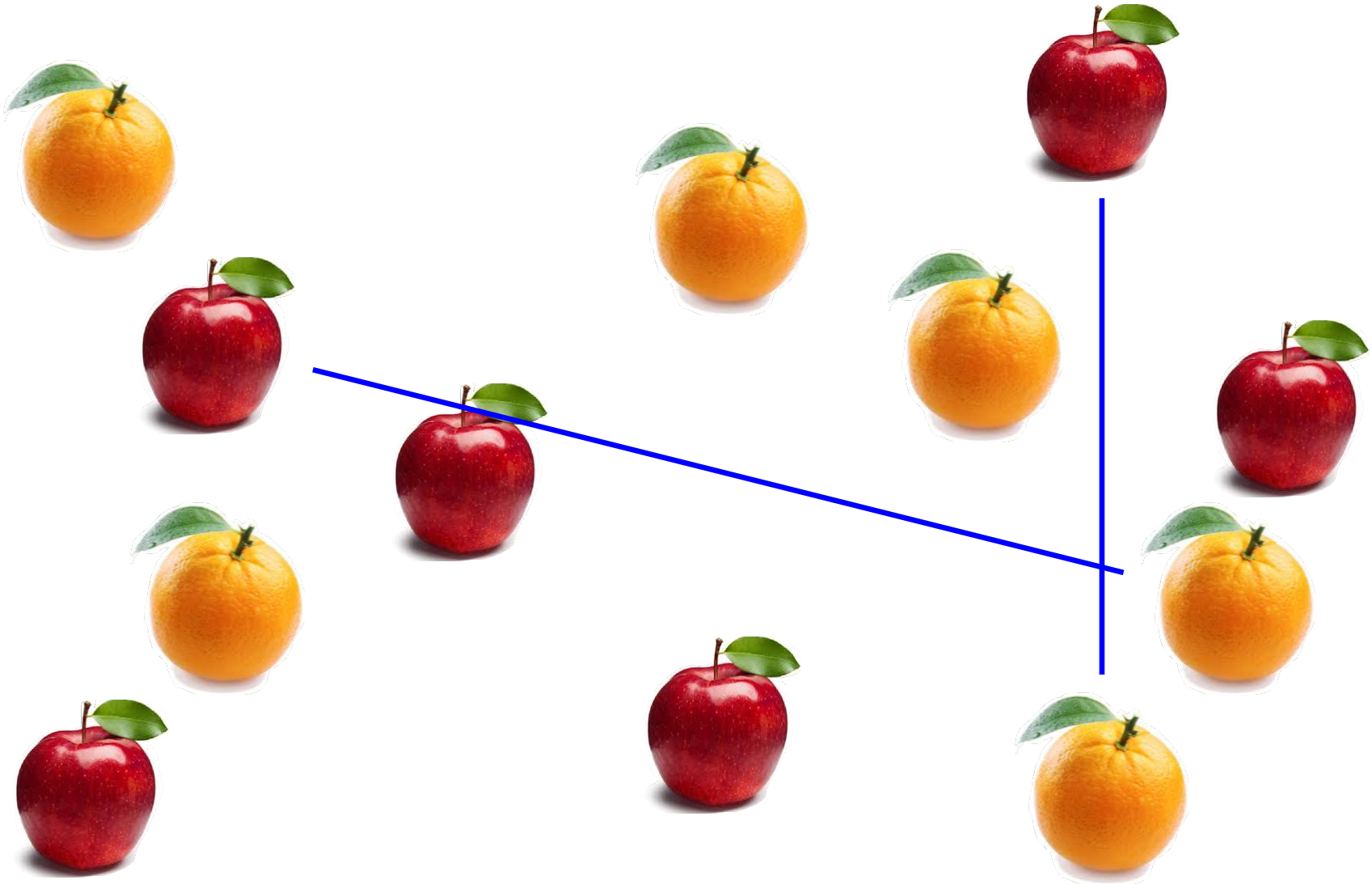

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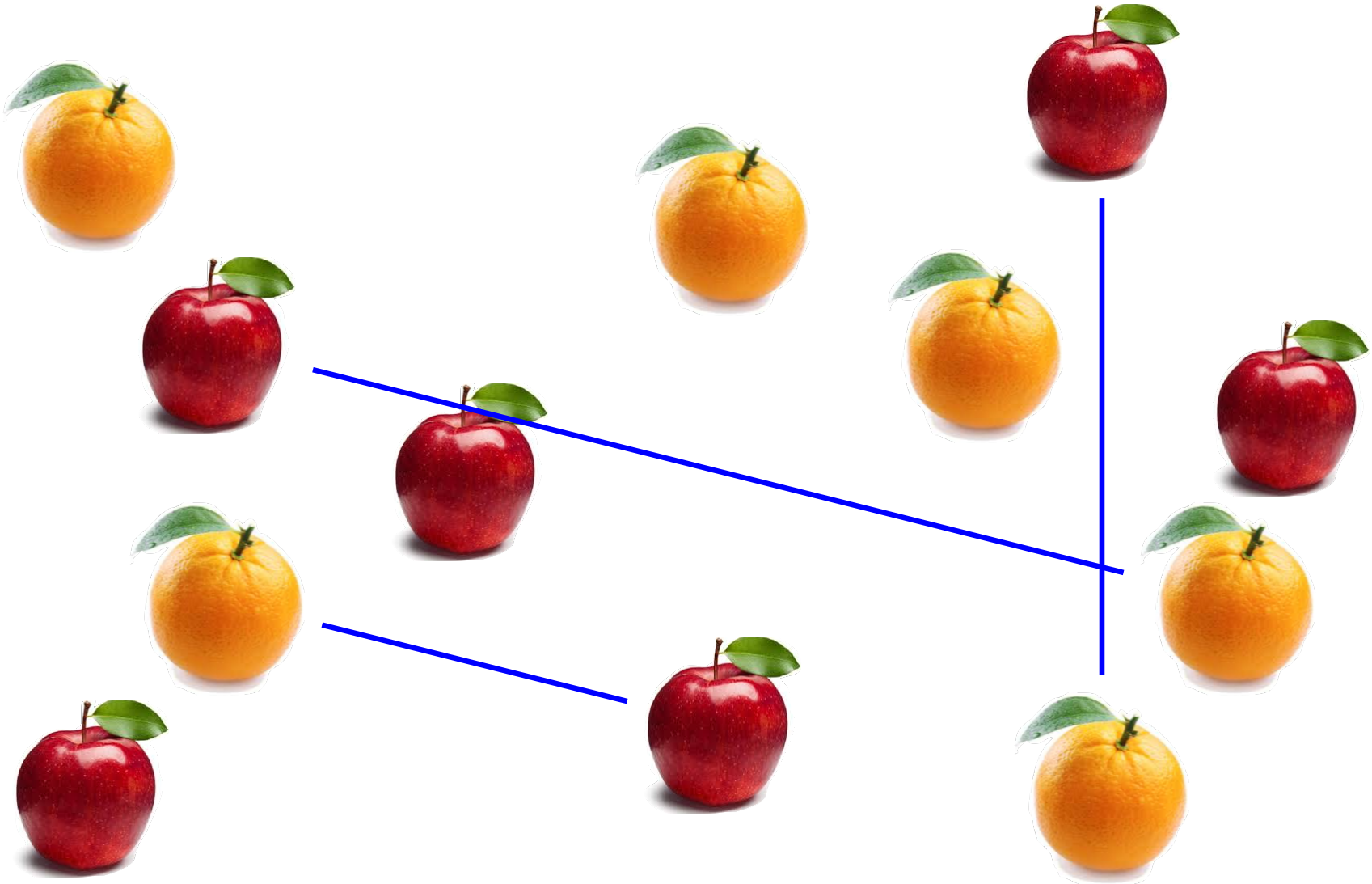

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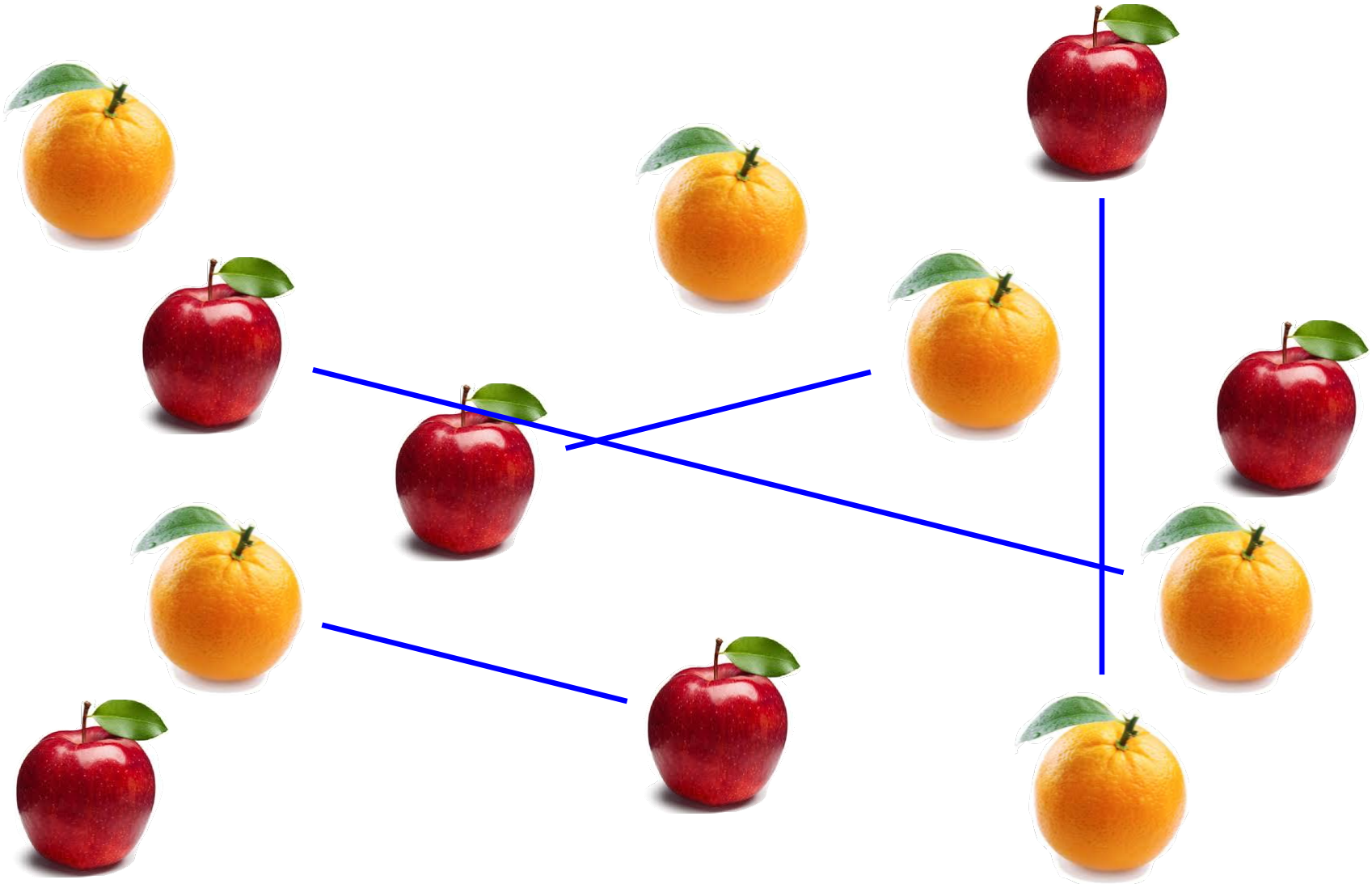

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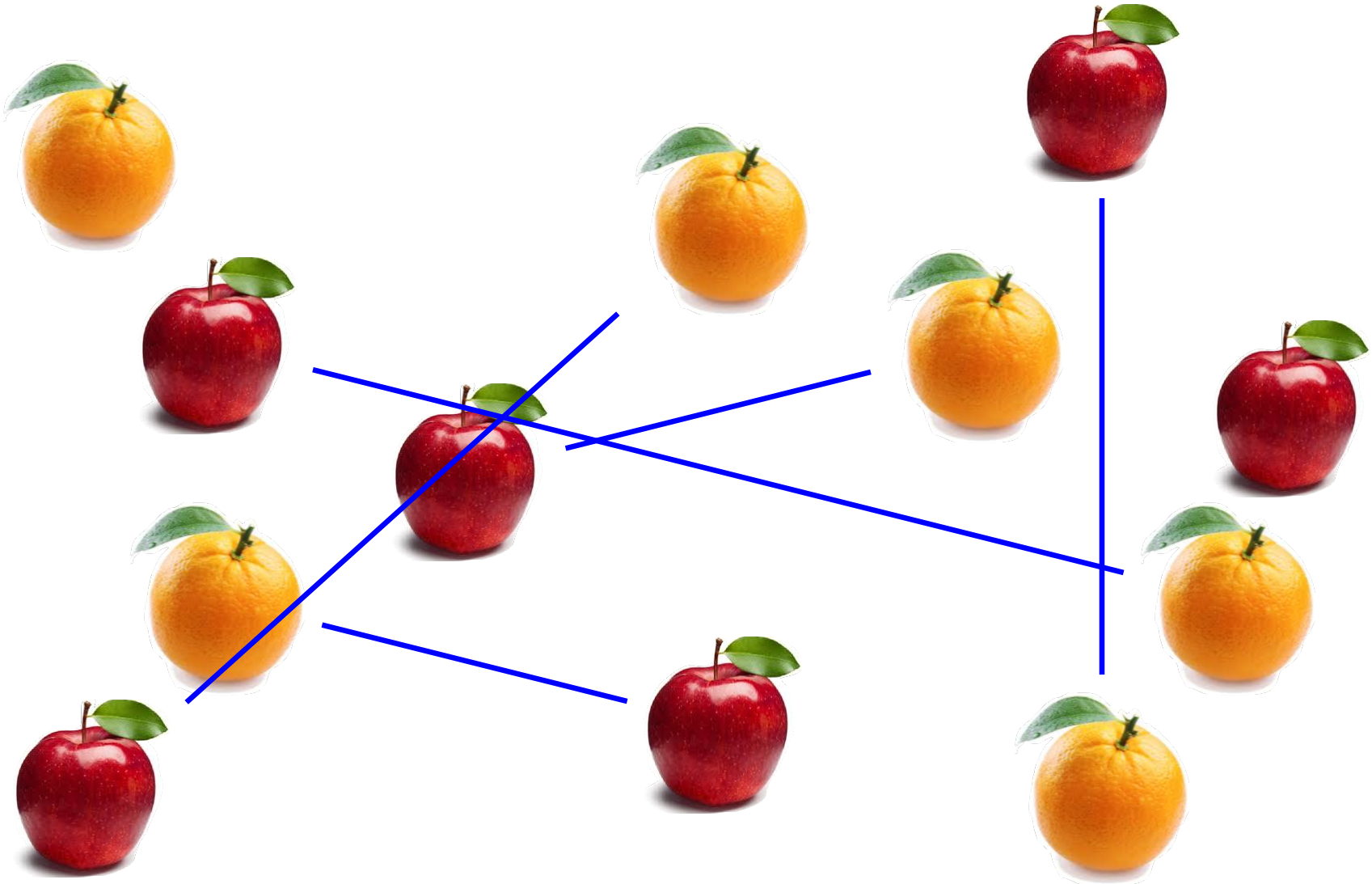

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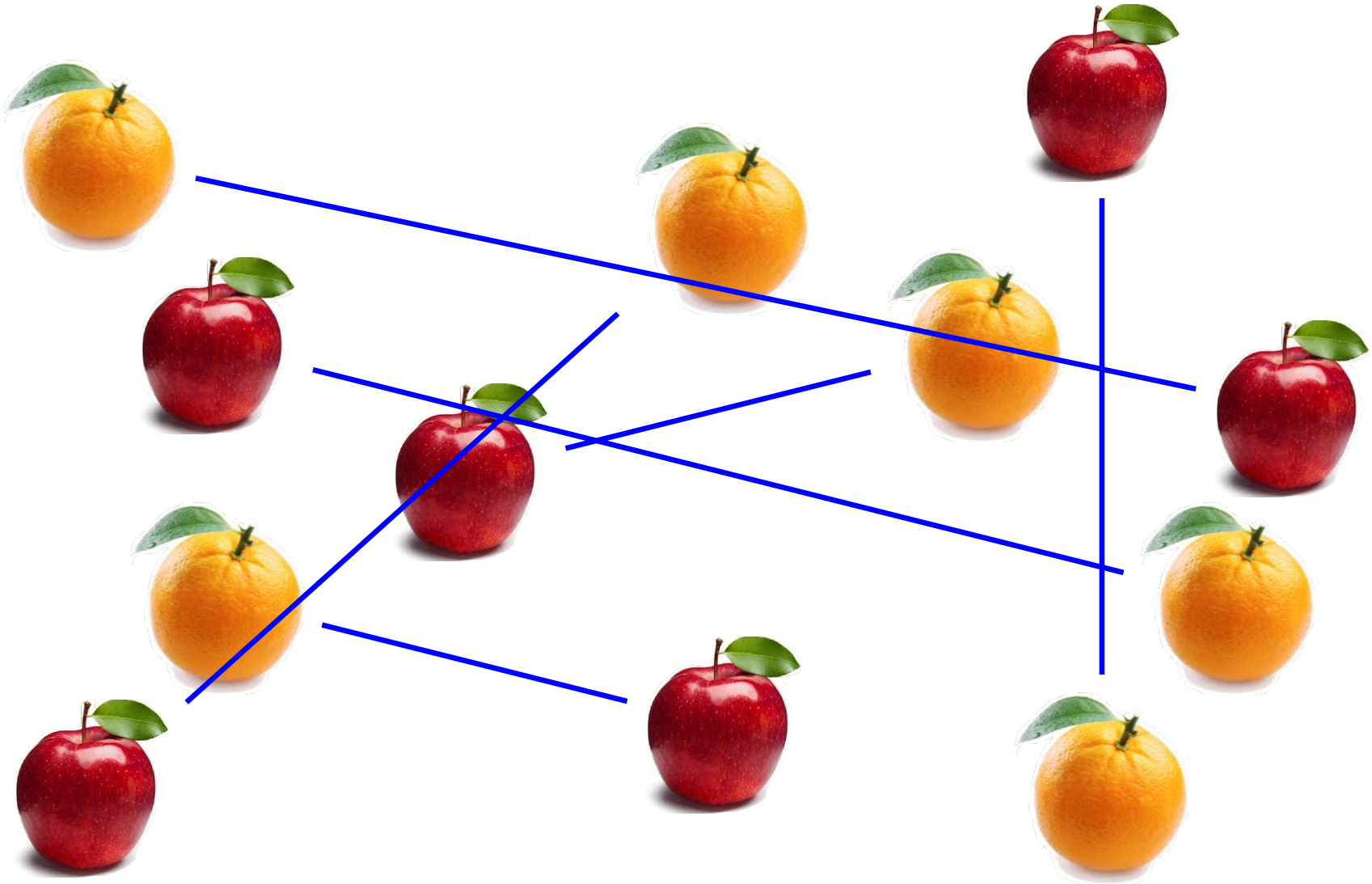

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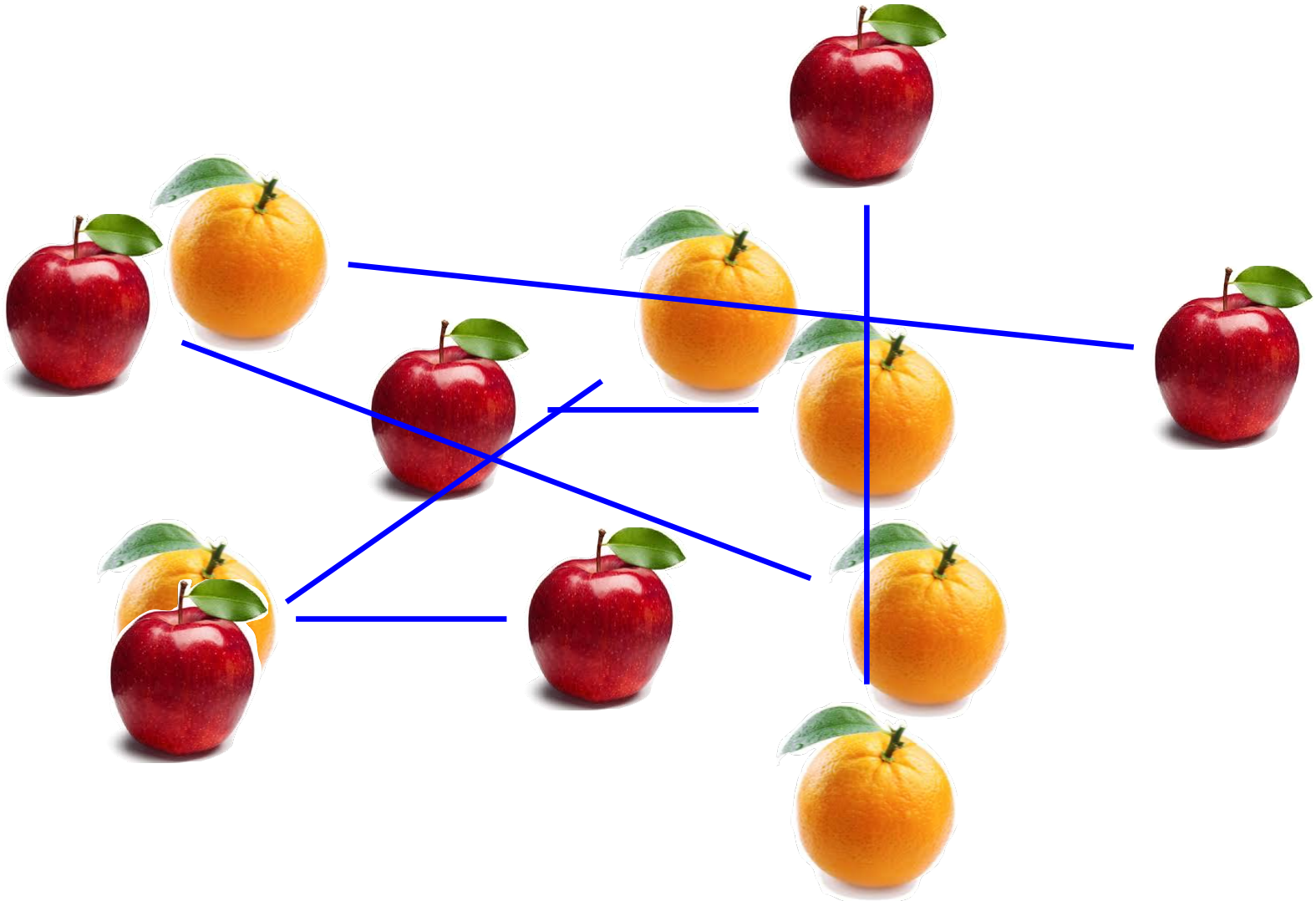

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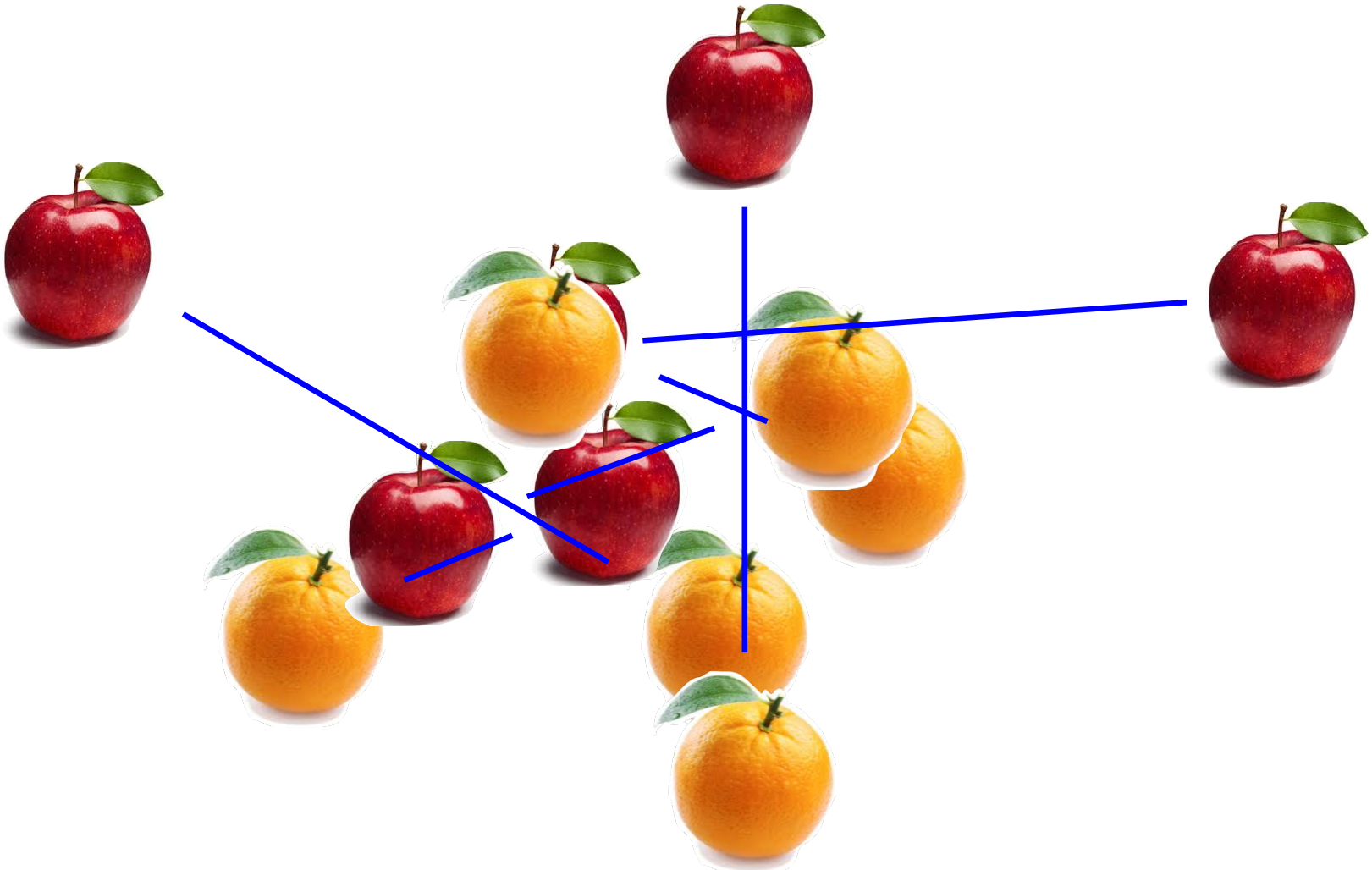

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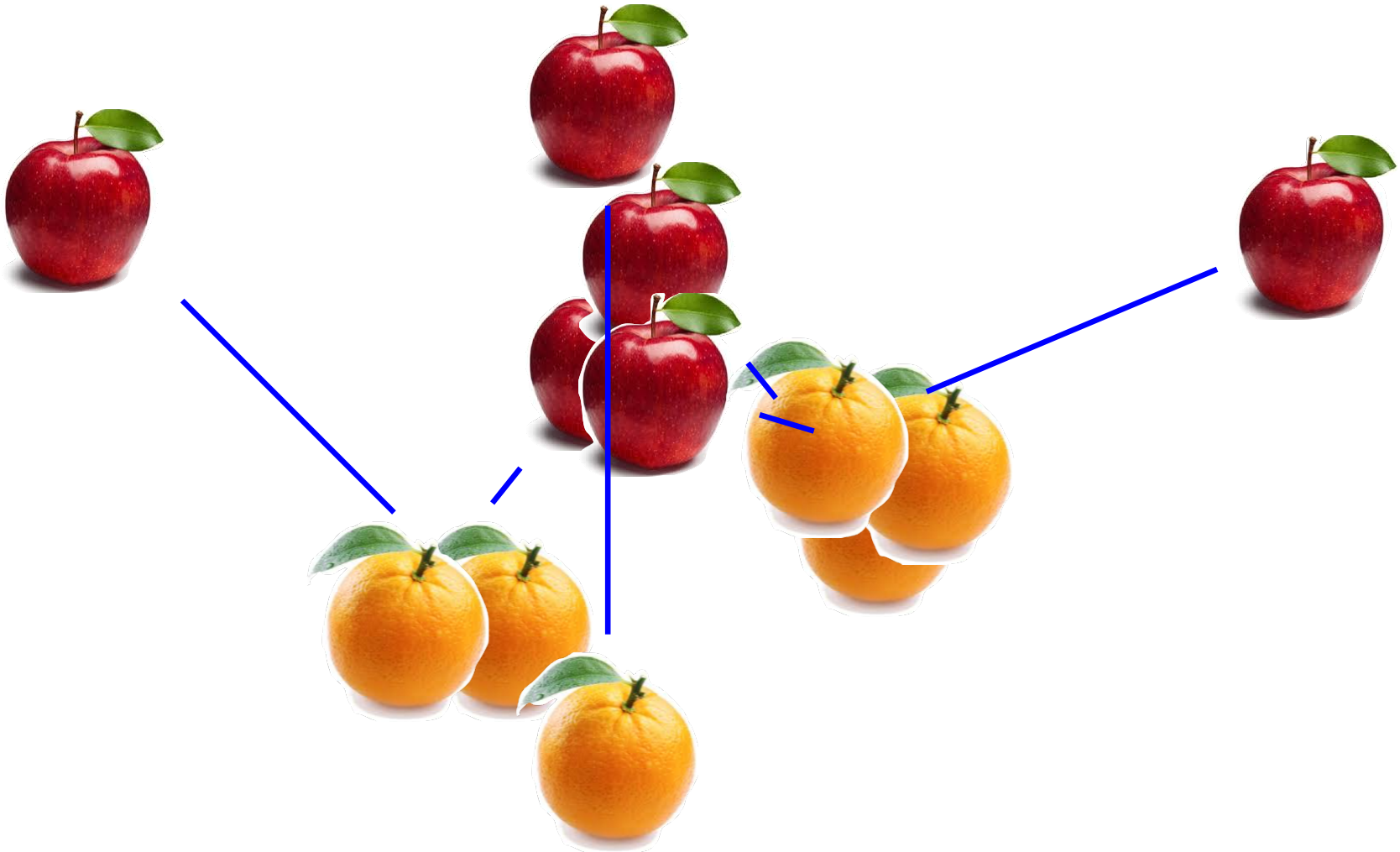

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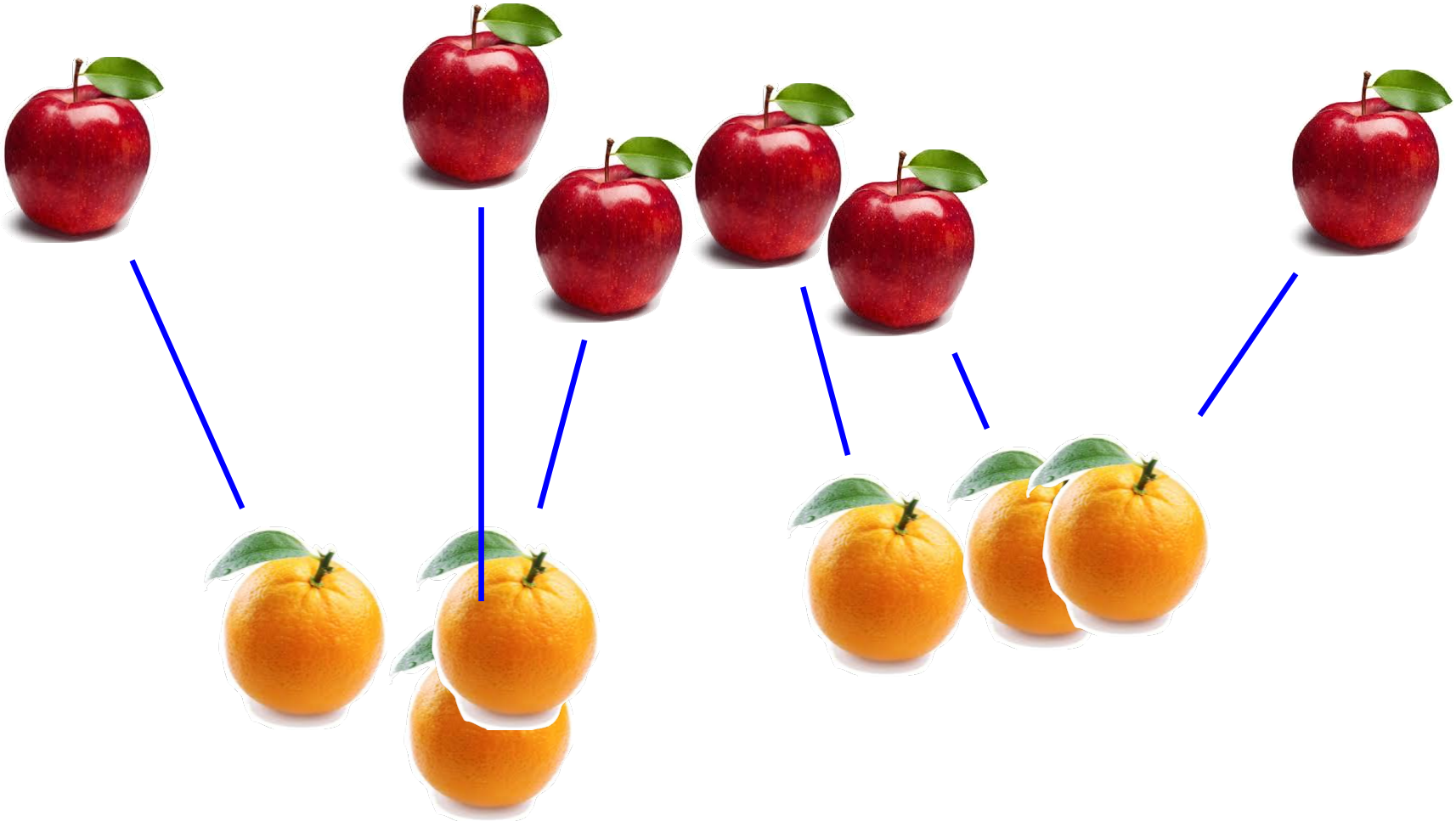

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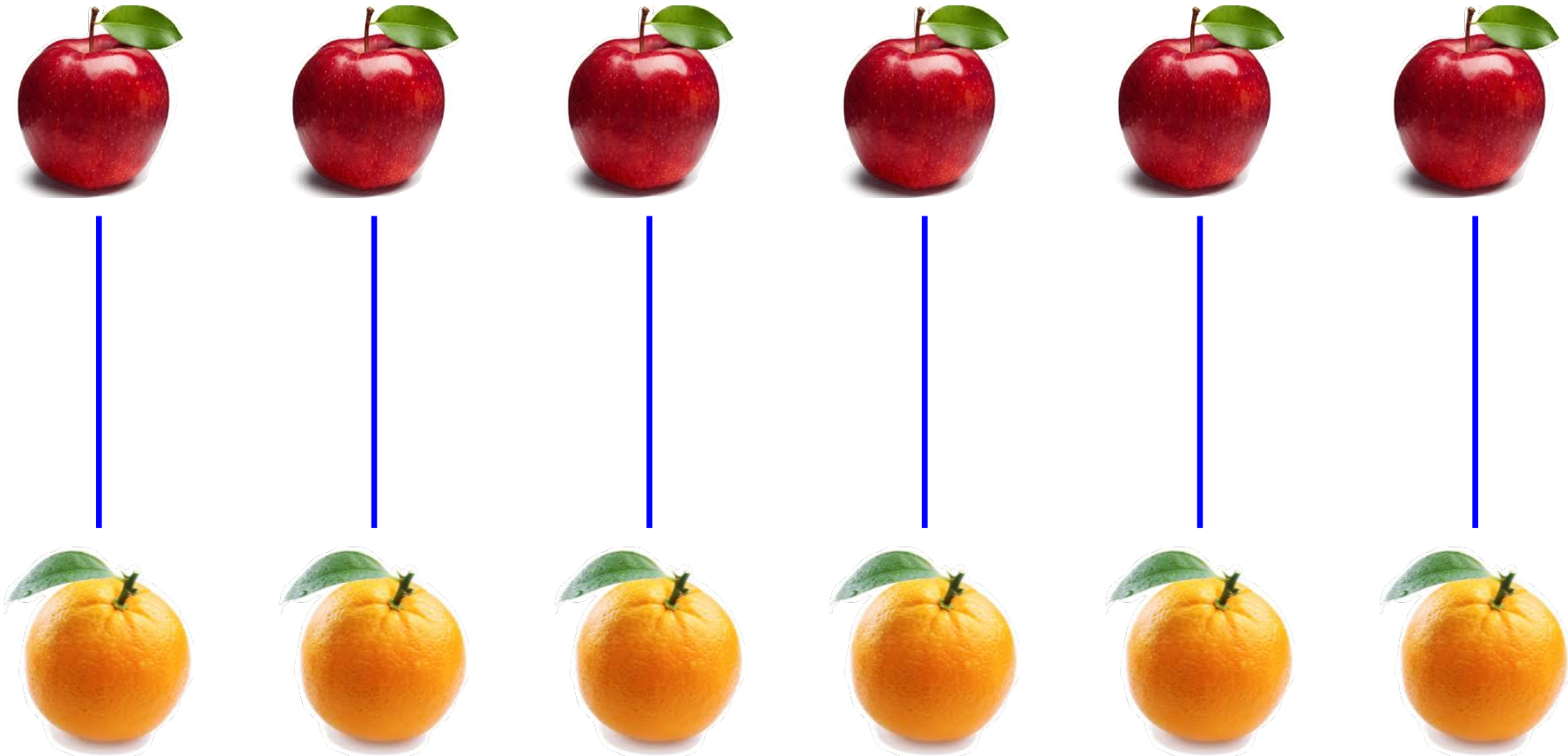
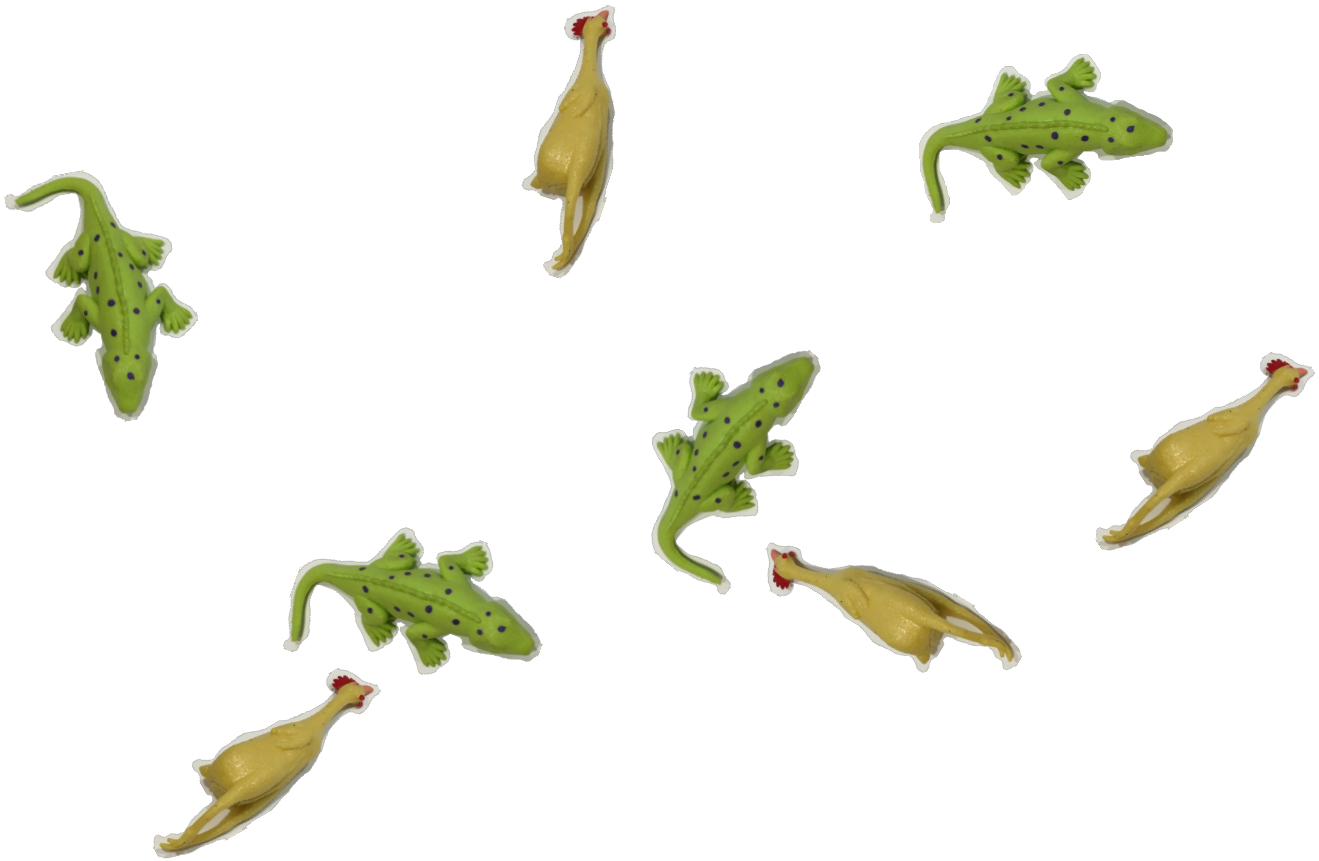


Now you try!

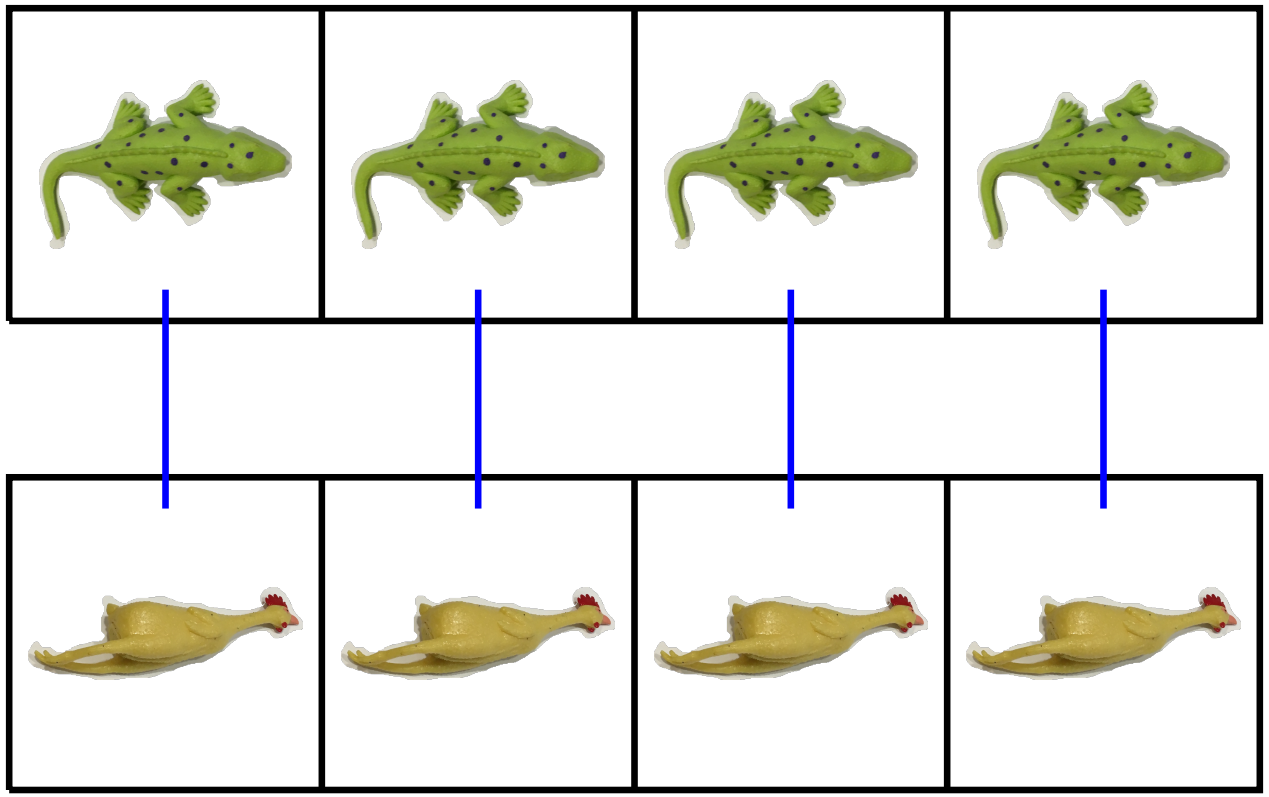
The upshot

How can you tell if two collections are the same size?

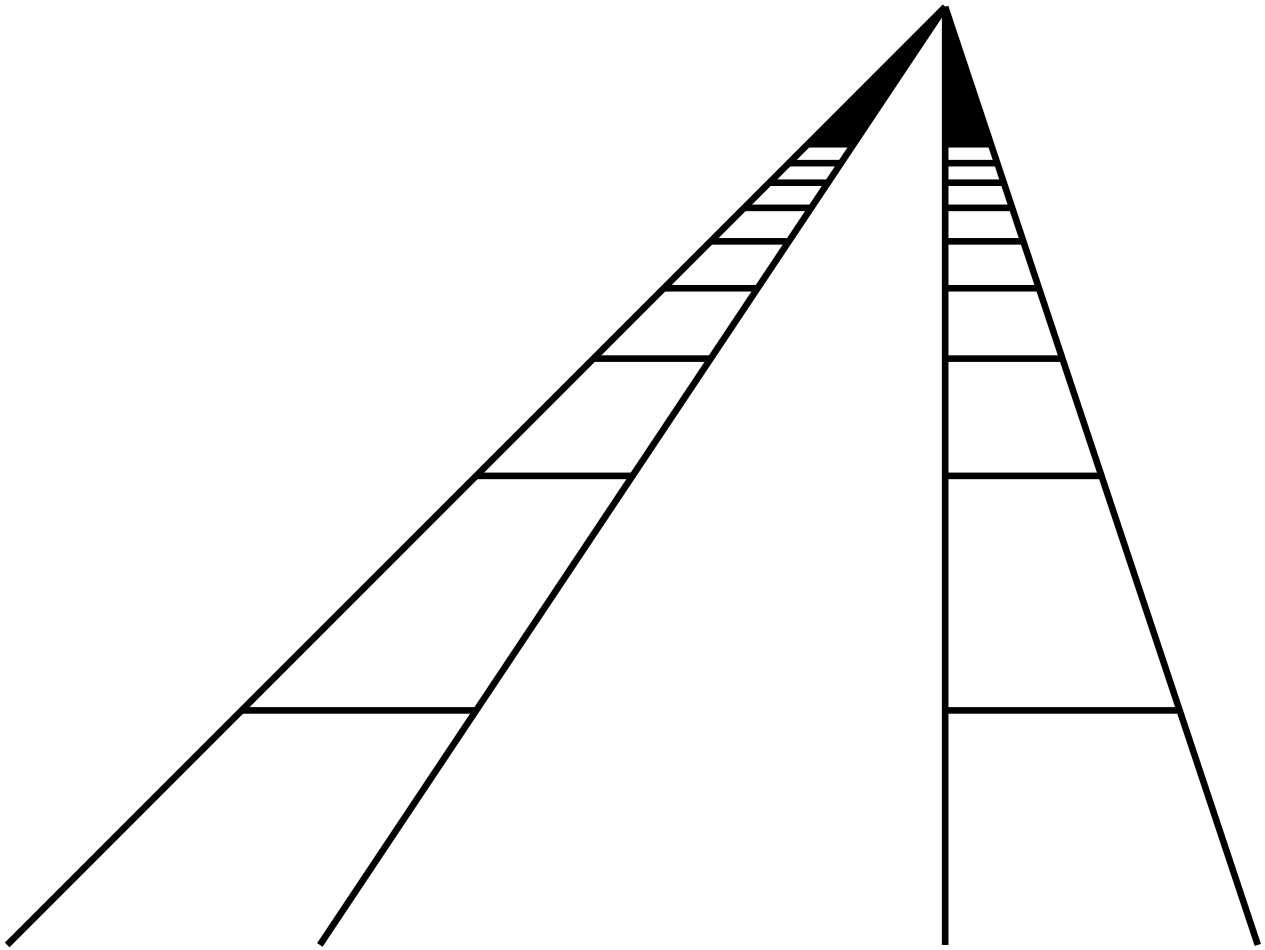


The upshot

Match 'em up!



Let's match infinite collections



Hotel Infinity

Rooms available.

Hotel Infinity

Rooms available.
Come on in!

Hotel Infinity

All Full.

Hotel Infinity

All Full.

Come on in!

Thank You!