

Purposeful Design

MATHEMATICS

Grade 2

Second Edition

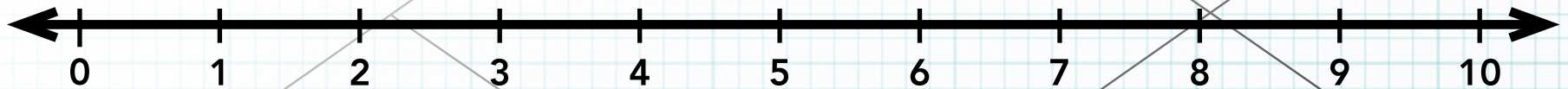
***Addition and
Subtraction***

What is the sum?

Start at 6 and count on 3 more.

$$\boxed{6} + \boxed{3} = \boxed{}$$

addend addend sum



6

+

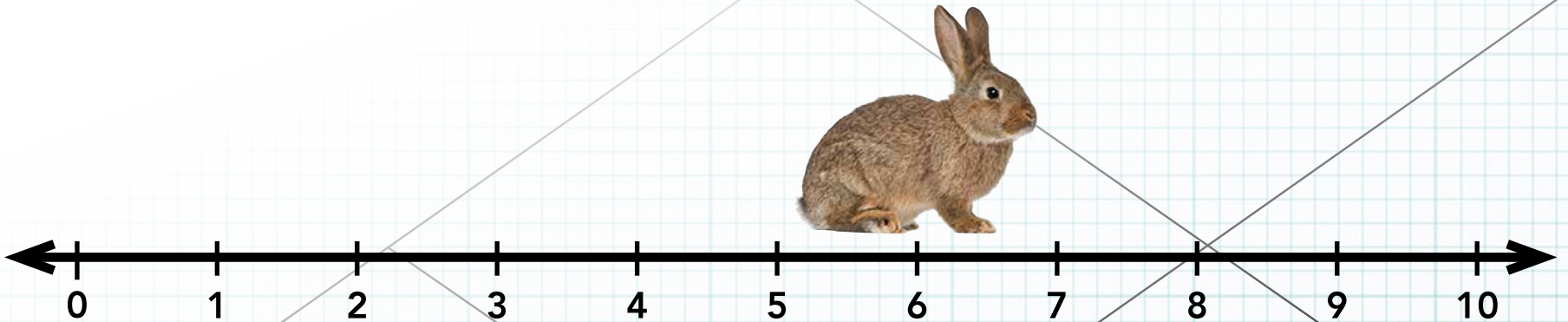
3

=

addend

addend

sum



6

+

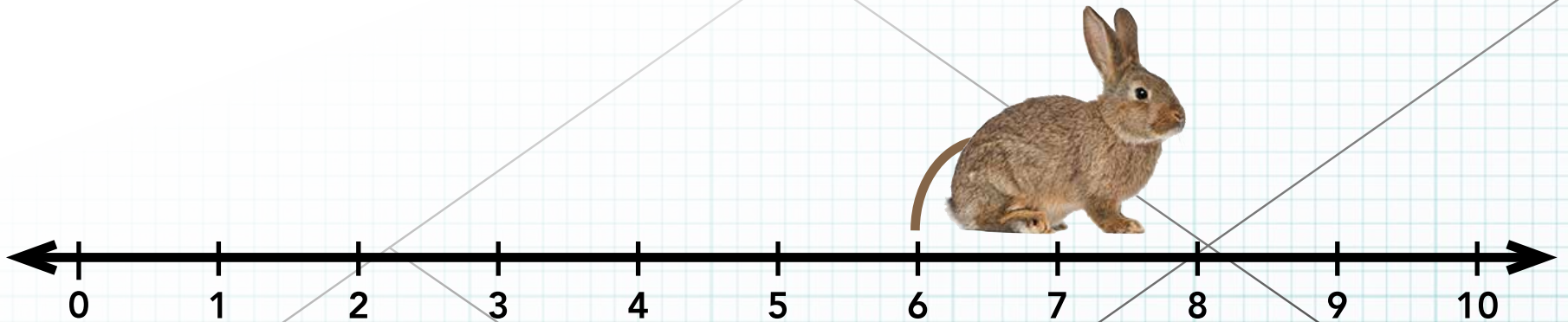
3

=

addend

addend

sum



6

+

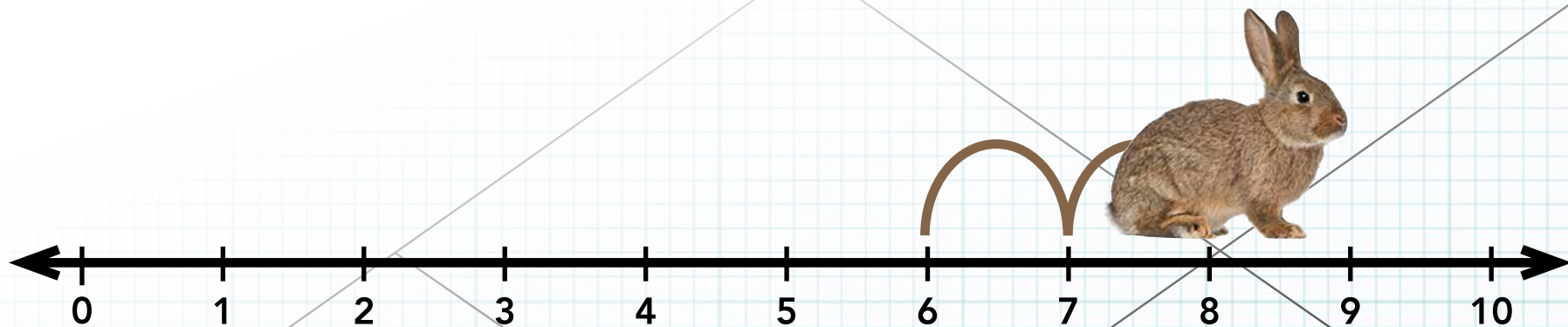
3

=

addend

addend

sum



6

+

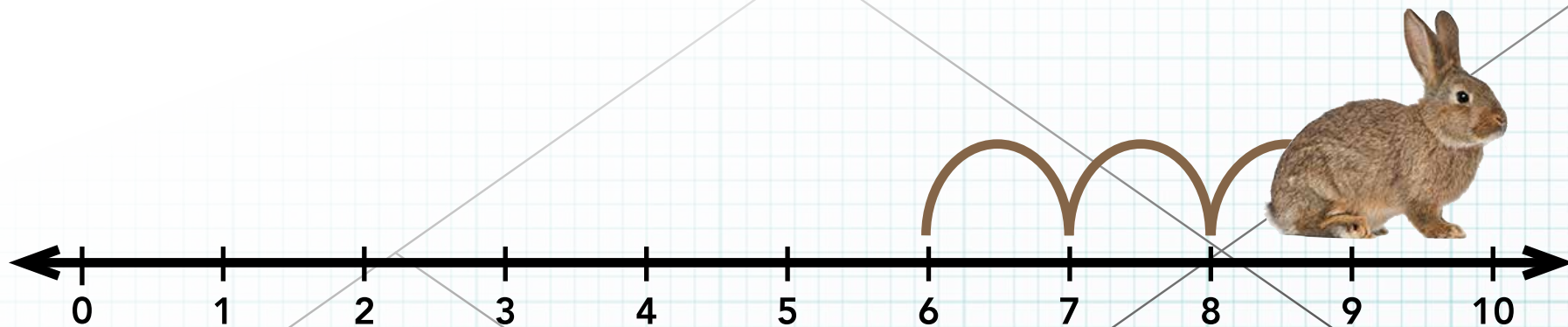
3

=

addend

addend

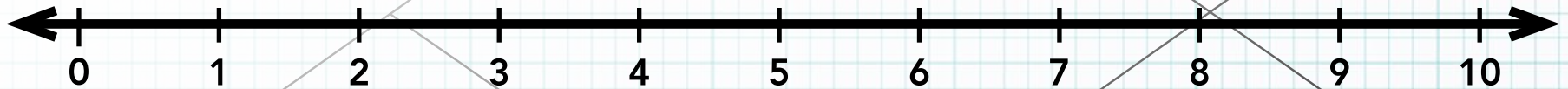
sum



What is the difference?
Start at 10 and count back 2.

$$\boxed{10} - \boxed{2} = \boxed{}$$

whole part part



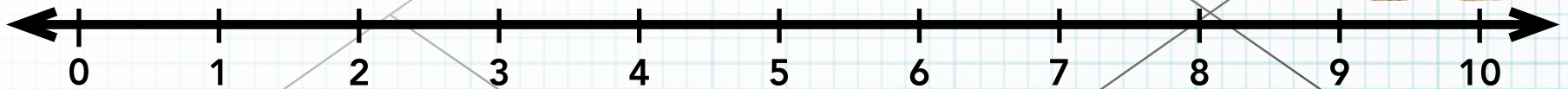
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part

part



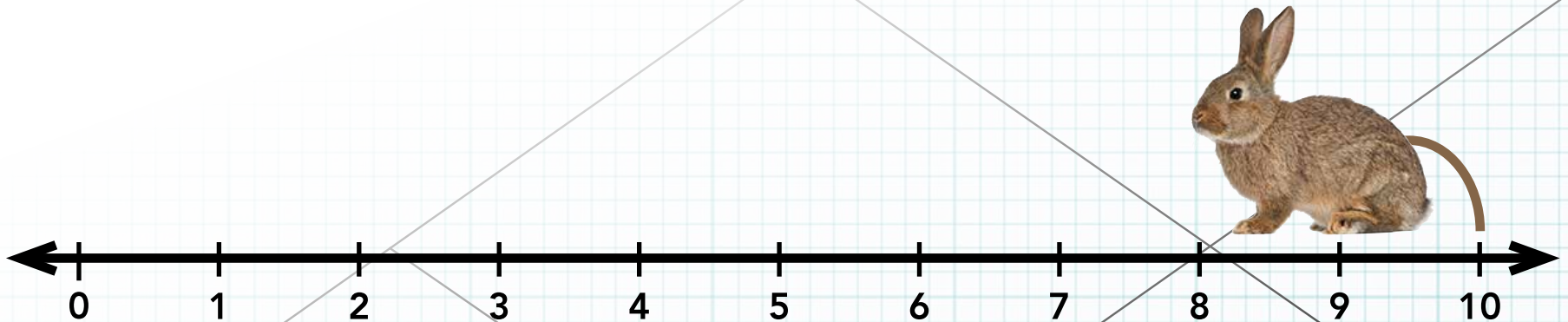
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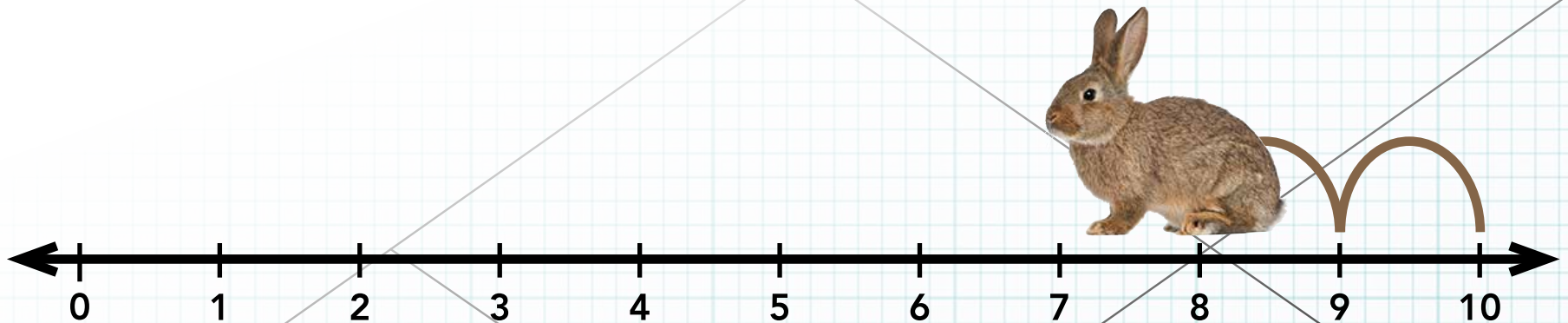
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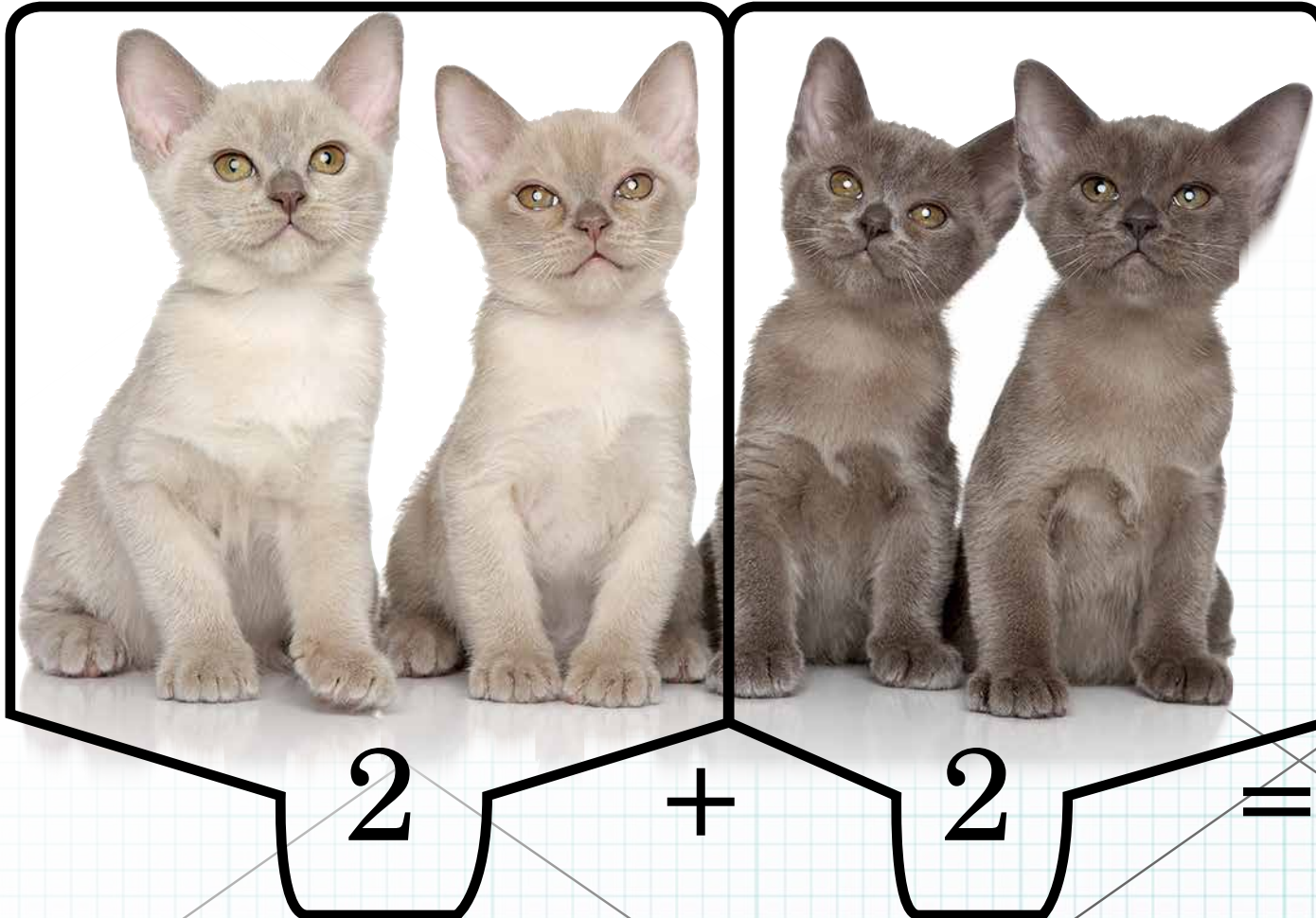
whole

part

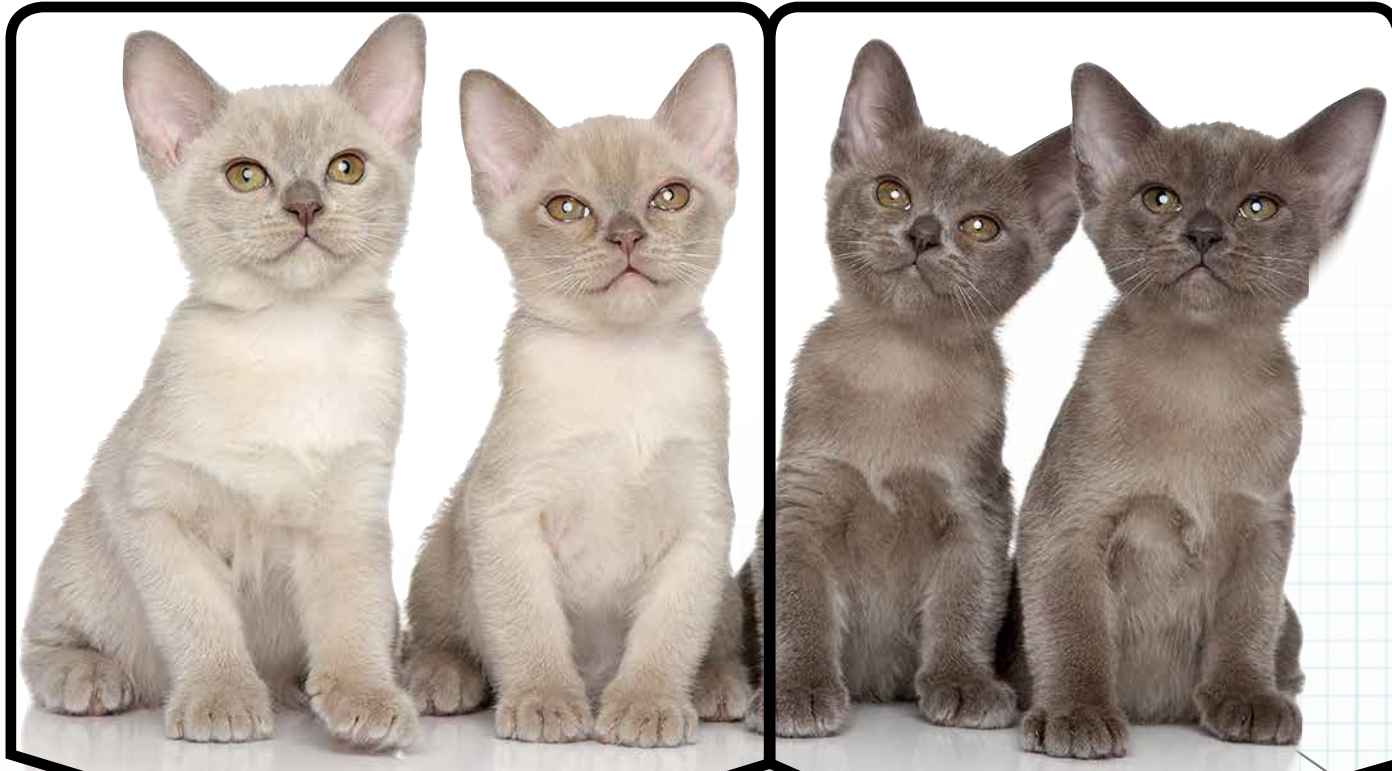
part



Doubles have addends that are the same.
What is the sum of these addends?



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What is the sum of these addends?



$$2 + 2 = \underline{4}$$

Doubles plus 1 sentences have an addend that is one number higher than the double.

$$3 + 4 = \underline{\quad}$$



What double is closest to these numbers?

You know $3 + 3 = 6$, so add 1.

$$3 + 4 = \underline{7}$$



Doubles minus 1 sentences have an addend that is one number less than the double.

$$6 + 5 = \underline{\quad}$$



What double is closest to these numbers?

You know $6 + 6 = 12$, so subtract 1.

$$6 + 5 = \underline{11}$$



Order Property of Addition

The order of the addends does not matter.

$$1 + 4 = 5$$

$$4 + 1 = 5$$



Fact families use the same set of numbers.

