

Smarter Balanced Assessment Item Illustrating 4.OA.B.4

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Example Stem: Drag numbers into the boxes to make factor pairs of 12.

<input type="text"/>	×	<input type="text"/>	=	12
<input type="text"/>	×	<input type="text"/>	=	12
<input type="text"/>	×	<input type="text"/>	=	12

1	2	3	4	5	6	7	8	9
10	11	12						

Answer Key

1x12 or 12x1; 2x6 or 6x2; 3x4 or 4x3

Elaboration on Alignment

This item format allows students to generate all of the factor pairs for a given whole number but does so in a way that is a bit more authentic than the typical list (i.e., listing the factors of 12 as 1, 2, 3, 4, 6, 12). One of the advantages of the format is that it can help students establish a more formal working definition of the term “factor” and its role in multiplication equations.

Learn More

Learn more with the [MATH Assessment Item Alignment Modules](#) at www.achievethecore.org.