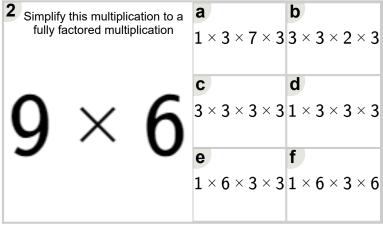**mobius**

Math worksheet on *'Factoring - Simplifying Multiplication with Factors - Composite to Factors (Level 1)'*. Part of a broader unit on *'Factoring, Multiplication, Division, Fractions - Intro'*
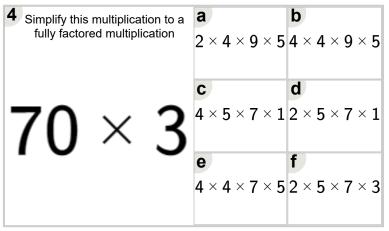
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1 Simplify this multiplication to a fully factored multiplication

$$35 \times 15$$

a	b
$2 \times 7 \times 1 \times 5$	$2 \times 9 \times 4 \times 5$
c	**d**
$5 \times 7 \times 2 \times 5$	$5 \times 7 \times 3 \times 5$
e	**f**
$2 \times 13 \times 4 \times 5$	$2 \times 9 \times 1 \times 5$

2 Simplify this multiplication to a fully factored multiplication

$$9 \times 6$$

a	b
$1 \times 3 \times 7 \times 3$	$3 \times 3 \times 2 \times 3$
c	**d**
$3 \times 3 \times 3 \times 3$	$1 \times 3 \times 3 \times 3$
e	**f**
$1 \times 6 \times 3 \times 3$	$1 \times 6 \times 3 \times 6$

3 Simplify this multiplication to a fully factored multiplication

$$49 \times 14$$

a	b
$7 \times 7 \times 2 \times 7$	$5 \times 8 \times 4 \times 6$
c	**d**
$7 \times 8 \times 2 \times 7$	$7 \times 8 \times 1 \times 6$
e	**f**
$7 \times 8 \times 1 \times 7$	$5 \times 8 \times 3 \times 6$

4 Simplify this multiplication to a fully factored multiplication

$$70 \times 3$$

a	b
$2 \times 4 \times 9 \times 5$	$4 \times 4 \times 9 \times 5$
c	**d**
$4 \times 5 \times 7 \times 1$	$2 \times 5 \times 7 \times 1$
e	**f**
$4 \times 4 \times 7 \times 5$	$2 \times 5 \times 7 \times 3$

5 Simplify this multiplication to a fully factored multiplication

$$28 \times 2$$

a	b
$2 \times 4 \times 7 \times 2$	$2 \times 4 \times 8 \times 2$
c	**d**
$2 \times 2 \times 7 \times 2$	$2 \times 2 \times 7 \times 4$
e	**f**
$1 \times 8 \times 8 \times 5$	$2 \times 8 \times 8 \times 5$

6 Simplify this multiplication to a fully factored multiplication

$$25 \times 14$$

a	b
$5 \times 5 \times 2 \times 7$	$5 \times 3 \times 2 \times 4$
c	**d**
$5 \times 7 \times 2 \times 7$	$5 \times 3 \times 2 \times 2$
e	**f**
$2 \times 3 \times 2 \times 2$	$5 \times 3 \times 2 \times 2$

7 Simplify this multiplication to a fully factored multiplication

$$15 \times 6$$

a	b
$6 \times 6 \times 3 \times 1$	$3 \times 5 \times 2 \times 3$
c	**d**
$3 \times 5 \times 1 \times 3$	$3 \times 6 \times 3 \times 1$
e	**f**
$3 \times 9 \times 1 \times 1$	$3 \times 9 \times 1 \times 3$

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