



Math worksheet on 'Factoring - Simplifying Multiplication with Factors - Composite to Factors (Level 2)'. Part of a broader unit on 'Factoring, Multiplication, Division, Fractions - Intro'

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2 Simplify this multiplication to a fully factored multiplication

100 × 49

a $2 \times 2 \times 1 \times 5 \times 7 \times 10$	b $3 \times 1 \times 1 \times 1 \times 5 \times 12$
c $2 \times 2 \times 5 \times 5 \times 7 \times 7$	d $2 \times 2 \times 5 \times 5 \times 7 \times 10$
e $2 \times 1 \times 1 \times 1 \times 7 \times 12$	f $2 \times 2 \times 1 \times 1 \times 7 \times 10$

1 Simplify this multiplication to a fully factored multiplication

63 × 28

a $5 \times 1 \times 8 \times 2 \times 3 \times 8$
b $3 \times 1 \times 9 \times 2 \times 1 \times 7$
c $3 \times 1 \times 7 \times 2 \times 1 \times 7$
d $3 \times 3 \times 7 \times 2 \times 2 \times 7$
e $3 \times 1 \times 8 \times 2 \times 3 \times 7$
f $3 \times 1 \times 5 \times 2 \times 3 \times 7$

3 Simplify this multiplication to a fully factored multiplication

24 × 35

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

4 Simplify this multiplication to a fully factored multiplication

36 × 10

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

5 Simplify this multiplication to a fully factored multiplication

12 × 20

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

6 Simplify this multiplication to a fully factored multiplication

20 × 30

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

7 Simplify this multiplication to a fully factored multiplication

98 × 18

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