



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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1 Simplify this multiplication to a fully factored multiplication

$$50 \times 63$$

a $5 \times 5 \times 5 \times 6 \times 3 \times 7$

b $7 \times 5 \times 7 \times 8 \times 3 \times 7$

c $8 \times 5 \times 5 \times 10 \times 3 \times 7$

d $8 \times 5 \times 7 \times 10 \times 3 \times 7$

e $7 \times 5 \times 7 \times 10 \times 3 \times 7$

f $2 \times 5 \times 5 \times 3 \times 3 \times 7$

2 Simplify this multiplication to a fully factored multiplication

$$12 \times 20$$

a $5 \times 7 \times 3 \times 1 \times 2 \times 1$

b $2 \times 3 \times 3 \times 3 \times 2 \times 5$

c $2 \times 3 \times 3 \times 2 \times 2 \times 5$

d $5 \times 7 \times 3 \times 1 \times 1 \times 1$

e $2 \times 7 \times 3 \times 1 \times 2 \times 5$

f $2 \times 2 \times 3 \times 2 \times 2 \times 5$

3 Simplify this multiplication to a fully factored multiplication

$$100 \times 15$$

a $6 \times 3 \times 5 \times 5 \times 3 \times 6$

b $2 \times 2 \times 5 \times 5 \times 3 \times 3$

c $2 \times 2 \times 5 \times 5 \times 3 \times 5$

d $2 \times 3 \times 5 \times 5 \times 3 \times 5$

e $2 \times 2 \times 5 \times 7 \times 3 \times 3$

f $6 \times 2 \times 5 \times 5 \times 3 \times 2$

4 Simplify this multiplication to a fully factored multiplication

$$25 \times 60$$

a $4 \times 5 \times 2 \times 1 \times 3 \times 5$

b $5 \times 5 \times 2 \times 2 \times 3 \times 5$

c $9 \times 5 \times 2 \times 3 \times 3 \times 5$

d $9 \times 5 \times 2 \times 2 \times 3 \times 5$

e $4 \times 5 \times 4 \times 5 \times 3 \times 5$

f $4 \times 5 \times 2 \times 5 \times 3 \times 5$

5 Simplify this multiplication to a fully factored multiplication

$$20 \times 30$$

a $2 \times 1 \times 5 \times 3 \times 1 \times 2$

b $2 \times 2 \times 5 \times 3 \times 3 \times 5$

c $5 \times 1 \times 5 \times 3 \times 1 \times 4$

d $5 \times 4 \times 5 \times 3 \times 1 \times 4$

e $2 \times 1 \times 5 \times 3 \times 1 \times 5$

f $2 \times 2 \times 5 \times 2 \times 3 \times 5$

6 Simplify this multiplication to a fully factored multiplication

$$4 \times 40$$

a $1 \times 2 \times 2 \times 1 \times 6 \times 5$

b $1 \times 2 \times 2 \times 1 \times 2 \times 5$

c $1 \times 2 \times 1 \times 1 \times 6 \times 5$

d $2 \times 2 \times 2 \times 2 \times 2 \times 5$

e $1 \times 2 \times 1 \times 2 \times 6 \times 5$

f $1 \times 2 \times 2 \times 1 \times 3 \times 5$

7 Simplify this multiplication to a fully factored multiplication

$$54 \times 49$$

a $6 \times 3 \times 7 \times 3 \times 14 \times 7$

b $6 \times 3 \times 3 \times 3 \times 14 \times 7$

c $2 \times 3 \times 3 \times 3 \times 7 \times 7$

d $6 \times 7 \times 7 \times 1 \times 14 \times 7$

e $6 \times 7 \times 7 \times 3 \times 14 \times 7$

f $2 \times 3 \times 3 \times 3 \times 10 \times 7$