



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

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1 Simplify this multiplication to bracketed factors

90×15

a $(6 \times 1 \times 3 \times 5) \times (1 \times 3)$
 b $(2 \times 1 \times 1 \times 5) \times (3 \times 3)$
 c $(2 \times 1 \times 1 \times 5) \times (3 \times 6)$
 d $(2 \times 3 \times 1 \times 5) \times (3 \times 6)$
 e $(2 \times 3 \times 3 \times 5) \times (3 \times 5)$
 f $(2 \times 1 \times 3 \times 5) \times (1 \times 3)$

2 Simplify this multiplication to bracketed factors

70×27

a $(2 \times 5 \times 7) \times (3 \times 3 \times 3)$
 b $(2 \times 9 \times 7) \times (3 \times 3 \times 3)$
 c $(2 \times 9 \times 7) \times (7 \times 3 \times 3)$
 d $(2 \times 13 \times 5) \times (3 \times 2 \times 3)$
 e $(2 \times 11 \times 5) \times (3 \times 3 \times 3)$
 f $(2 \times 13 \times 7) \times (3 \times 6 \times 3)$

3 Simplify this multiplication to bracketed factors

63×30

a $(3 \times 5 \times 10) \times (2 \times 6 \times 6)$
 b $(3 \times 2 \times 10) \times (2 \times 3 \times 6)$
 c $(3 \times 3 \times 10) \times (2 \times 3 \times 5)$
 d $(3 \times 3 \times 7) \times (2 \times 3 \times 5)$
 e $(3 \times 2 \times 10) \times (2 \times 7 \times 6)$
 f $(7 \times 5 \times 10) \times (1 \times 6 \times 6)$

4 Simplify this multiplication to bracketed factors

16×6

a $(6 \times 2 \times 2 \times 2) \times (3 \times 2)$
 b $(2 \times 2 \times 2 \times 2) \times (2 \times 3)$
 c $(3 \times 2 \times 2 \times 2) \times (2 \times 3)$
 d $(2 \times 2 \times 1 \times 2) \times (3 \times 2)$
 e $(2 \times 2 \times 2 \times 2) \times (3 \times 2)$
 f $(3 \times 2 \times 2 \times 2) \times (3 \times 3)$

5 Simplify this multiplication to bracketed factors

50×45

a $(2 \times 3 \times 5) \times (3 \times 3 \times 5)$
 b $(1 \times 3 \times 7) \times (2 \times 3 \times 5)$
 c $(1 \times 3 \times 10) \times (2 \times 2 \times 5)$
 d $(2 \times 5 \times 5) \times (3 \times 3 \times 5)$
 e $(1 \times 3 \times 5) \times (3 \times 3 \times 5)$
 f $(2 \times 1 \times 5) \times (3 \times 3 \times 6)$

6 Simplify this multiplication to bracketed factors

12×63

a $(4 \times 2 \times 1) \times (2 \times 1 \times 10)$
 b $(2 \times 2 \times 3) \times (3 \times 3 \times 7)$
 c $(4 \times 2 \times 3) \times (2 \times 2 \times 10)$
 d $(3 \times 2 \times 3) \times (2 \times 3 \times 7)$
 e $(3 \times 2 \times 1) \times (2 \times 1 \times 10)$
 f $(3 \times 2 \times 3) \times (2 \times 2 \times 7)$

7 Simplify this multiplication to bracketed factors

6×100

a $(1 \times 6) \times (2 \times 2 \times 5 \times 5)$
 b $(3 \times 6) \times (4 \times 1 \times 1 \times 5)$
 c $(1 \times 6) \times (2 \times 1 \times 5 \times 5)$
 d $(2 \times 3) \times (2 \times 2 \times 5 \times 5)$
 e $(1 \times 3) \times (2 \times 2 \times 5 \times 5)$
 f $(3 \times 6) \times (2 \times 1 \times 1 \times 5)$