



Math worksheet on 'Factoring - Simplifying Multiplication with Factors - Composite to Bracketed Factors (Level 1)'. Part of a broader unit on 'Factoring, Multiplication, Division, Fractions - Intro'

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1 Simplify this multiplication to bracketed factors

$$25 \times 4$$

a $(5 \times 5) \times (2 \times 2)$

b $(6 \times 4) \times (1 \times 10)$

c $(9 \times 4) \times (1 \times 10)$

d $(6 \times 8) \times (4 \times 6)$

e $(6 \times 4) \times (1 \times 6)$

f $(5 \times 8) \times (2 \times 6)$

2 Simplify this multiplication to bracketed factors

$$2 \times 42$$

a $(2) \times (2 \times 3 \times 7)$ **b** $(2) \times (2 \times 6 \times 7)$

c $(5) \times (1 \times 6 \times 2)$ **d** $(2) \times (5 \times 6 \times 7)$

e $(5) \times (5 \times 6 \times 2)$ **f** $(2) \times (1 \times 6 \times 7)$

3 Simplify this multiplication to bracketed factors

$$14 \times 21$$

a $(2 \times 7) \times (3 \times 7)$ **b** $(1 \times 7) \times (1 \times 7)$

c $(2 \times 7) \times (1 \times 7)$ **d** $(1 \times 6) \times (3 \times 7)$

e $(1 \times 2) \times (1 \times 7)$ **f** $(3 \times 7) \times (1 \times 7)$

4 Simplify this multiplication to bracketed factors

$$10 \times 6$$

a $(1 \times 3) \times (7 \times 7)$ **b** $(2 \times 5) \times (4 \times 3)$

c $(2 \times 1) \times (4 \times 3)$ **d** $(1 \times 3) \times (6 \times 7)$

e $(2 \times 3) \times (7 \times 3)$ **f** $(2 \times 5) \times (2 \times 3)$

5 Simplify this multiplication to bracketed factors

$$21 \times 6$$

a $(3 \times 7) \times (2 \times 3)$ **b** $(4 \times 7) \times (2 \times 3)$

c $(5 \times 7) \times (2 \times 3)$ **d** $(5 \times 7) \times (3 \times 3)$

e $(9 \times 7) \times (7 \times 3)$ **f** $(3 \times 7) \times (2 \times 1)$

6 Simplify this multiplication to bracketed factors

$$49 \times 9$$

a $(7 \times 7) \times (3 \times 6)$ **b** $(7 \times 7) \times (3 \times 3)$

c $(7 \times 7) \times (3 \times 7)$ **d** $(3 \times 7) \times (3 \times 4)$

e $(3 \times 7) \times (3 \times 3)$ **f** $(5 \times 7) \times (3 \times 4)$

7 Simplify this multiplication to bracketed factors

$$27 \times 3$$

a $(5 \times 2 \times 2) \times (1)$ **b** $(3 \times 3 \times 3) \times (3)$

c $(5 \times 1 \times 2) \times (1)$ **d** $(5 \times 3 \times 3) \times (1)$

e $(5 \times 3 \times 2) \times (1)$ **f** $(3 \times 3 \times 3) \times (1)$