

Brackets and Factorising: Short questions testing basic skills. No context in THESE ones.

Common mistakes made with “signs” or not recognising “the difference of two squares”

5. (a) Factorise

$$4x^2 - y^2.$$

- (b) Hence simplify

$$\frac{4x^2 - y^2}{6x + 3y}.$$

1	
2	

4. (a) Expand and simplify

$$(x + 4)(3x - 1).$$

- (b) Expand

$$m^{\frac{1}{2}}(2 + m^2).$$

1	
2	

5. Remove brackets and simplify

$$(2x + 3)^2 - 3(x^2 - 6).$$

3	
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2. Factorise fully

$$5x^2 - 45.$$

2	
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5. (a) Factorise $p^2 - 4q^2$.

- (b) Hence simplify

$$\frac{p^2 - 4q^2}{3p + 6q}.$$

1	
2	

3. Simplify

$$3(2x - 4) - 4(3x + 1).$$

3	
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5. Factorise

$$2x^2 - 7x - 15.$$

2	
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