

REMOVING BRACKETS AND SIMPLIFYING

Subtract $3h + 7$ from $5h + 4$

You MUST introduce brackets in order to subtract a combined term

$$(5h+4) - (3h+7)$$

$$5h+4 - 3h - 7$$

$$5h - 3h + 4 - 7$$

$$2h - 3$$

ACTIVITY

1. Simplify the following;

- a. $(x+4) + (2x+5)$
- b. $(3y+2p) + (5y+4p)$
- c. $(5h+6) + (2h-3)$
- d. $(p+3x) + (4x-2p)$
- e. $(4n-5m) + (2n-3m)$
- f. $(2p-4) + (3p-3)$
- g. $(3k+5x) - (2k+3x)$
- h. $(6a+7) - (4a+9)$
- i. $(5b+3y) - (4b-y)$
- j. $(4h+5) - (2h-2)$
- k. $(3w-2z) - (w+4z)$
- l. $(d-4) - (3d-7)$
- m. $(7x-6) - (3x-4)$

2. Find the sum of $2y-5$ and $3y+7$

3. Subtract $3p-4$ from $4p+8$

4. What must be added to $k+3$ to get $3k-5$?

5. What must be added to $2x-6$ to get $4x+4$?

Removing brackets and simplifying

1. Simplify the following

- a. $2(x+y) + (y+x)$
- b. $3(p+4) + 2(p+6)$
- c. $4(a+2b) + 2(a-b)$
- d. $(3k-6) + 2(k+4)$
- e. $5(m-3n) + 3(m-2n)$
- f. $2(3y+2x) - 3(y+x)$
- g. $4(h+5) - 2(h-4)$
- h. $3(3n-7) - (4n-5)$
- i. $5(p-2q) - 3(p+q)$
- j. $2(2d-3) - 3(d+6)$

2. Find the sum of $2(x+y)$ and $3(x-y)$

3. Subtract $2a-3b$ from $2(2a+3b)$

4. What must be added to $2(p-3)$ to get $5p-3$?

5. What must be subtracted from $4(n-4)$ to get $2(n-2)$