

Your Turn

1. Write the highest common factor of the two terms in each expression:

a. $2x + 6$

2

c. $5x - 10$

5

e. $3x^2 + 9x$

$3x$

b. $8x + 6$

2

d. $4x + 16$

4

2. Fully factorise each expression:

a. $10x + 5$

$5(2x + 1)$

d. $6x + 3$

$3(2x + 1)$

g. $3y + 12$

$3(y + 4)$

b. $2x - 8$

$2(x - 4)$

e. $10t + 30$

$10(t + 3)$

h. $8z - 10$

$2(4z - 5)$

c. $5m - 25$

$5(m - 5)$

f. $7a - 14$

$7(a - 2)$

3. Fully factorise each of the following expressions.

a. $2x^2 + 6x$

$2x(x + 3)$

c. $9x^2 + 3xy$

$3x(3x + y)$

e. $4q^2 - 8pq$

$4q(q - 2p)$

b. $2y^2 - 8y$

$2y(y - 4)$

d. $4ab - 6bc$

$2b(2a - 3c)$

f. $2y^3 + 4y$

$2y(y^2 + 2)$

Challenge

Explain why $8x + 3y$ cannot be factorised.

There are no common factors between the terms other than 1.