

# Key answer

## Worksheet (2) | Lower Secondary Stage (6-8)

1<sup>st</sup> Semester | 2023-2024

Name: .....

Subject: math

Date: / /

Class: Grade 8

Objective:

*Factorise by taking the highest common factor.*

### EXERCISE (1):

*Find the H.C.F of each of the following:*

1  $12a, 16ab$

$4a$

2  $8a, 12b$

$4$

3  $10x^6y^3, 45xy^7$

$5xy^3$

4  $12d^2w^2r^5, 4w^3d^{10}$

$4d^2w^2$

5  $n^3s^5r^5, 6ns^3r^7$

$ns^3r^5$

6  $5k^8w^3h^2, 11k^2h^4$

$k^2h^2$

Accredited by



Cambridge Assessment  
International Education  
Cambridge International School

edexcel



مُعْتَمَدَةٌ مِنْ

### EXERCISE (2):

factorise each of the following algebraic expressions :

$$7 \quad \frac{6r^2 - 10r}{2r}$$

$$2r(3r - 5)$$

$$8 \quad \frac{ab^2 - 2ab}{ab}$$

$$ab(b - 2)$$

$$9 \quad \frac{12n^2m - 8nm^3}{4nm}$$

$$4nm(3n - 2m^2)$$

$$10 \quad \frac{15wx - 10wy^2}{5w}$$

$$5w(3x - 2y^2)$$

$$11 \quad \frac{4t^2 + 2t - 12tu}{2t}$$

$$2t(2t + 1 - 6u)$$

$$12 \quad \frac{12p + 24q - 6}{6}$$

$$6(2p + 4q - 1)$$

Teacher : Wisam Al - mashni