



The National
Orthodox School
Shmaisani

Key Answer

Name:

Worksheet(2)

Grade:8(A, B)

Subject : Factorisation (by taking the highest common factor)

Date :

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

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EXERCISE (2):

factorise each of the following algebraic expressions :

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

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

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

$$ab(b - 2)$$

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

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

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

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

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

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

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

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

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