

The key to HCF factoring is to find and divide each term by the HCF and place that result inside the brackets, leaving the HCF outside the brackets.

Each factorisation can be checked by expanding your factored answer. For example, in the previous worked example:

a. $5x + 3y = 5x + 15y$

b. $-7y(2x + 1) = -14xy - 7y$

c. $30(5a - 7c + 6f) = 150ab - 210c + 180f$

d. $3xy(2x + 3y) = 6x^2y + 9xy^2$

remember

1. Factoring is the 'opposite' of expanding, going from an expanded form to a more compact form.
2. Factor pairs of a term are numbers and pronumerals which, when multiplied together, produce the original term.
3. The number itself and 1 are factors of every integer.
4. The highest common factor (HCF) of given terms is the largest factor that divides into all terms without a remainder.
5. An expression is factorised by finding the HCF of each term, dividing it into each term and placing the result inside the brackets, with the HCF outside the brackets.

EXERCISE 6A

The highest common factor



- 1 Find all the factors of each of the following integers.

a. 36

b. 17

c. 51

d. -14

e. -6

f. 100

g. -42

h. 32

i. -32

j. -9

k. -64

l. -81

m. 29

n. -92

o. 48

p. -12



- 2 Find the highest common factor (HCF) of each of the following.

a. 4 and 12

b. 6 and 15

c. 10 and 25

d. 24 and 32

e. 12, 35 and 21

f. 25, 50 and 300

g. 17 and 23

h. $6a$ and $12ab$

i. $14cy$ and $21cx$

j. $60pq$ and $20q$

k. $50ade$ and $70gch$

l. $6a^2$ and $15a$

m. $6a$ and $9a$

n. $5ab$ and 25

o. $3x^2y$ and $4x^2z$

p. 4k and 6

- 3 **multiple choice**

What is 5m the highest common factor of?

A. $2m$ and $5m$

B. $5m$ and m

C. $25mm$ and $150m$

D. $20m$ and $40m$

E. $15m^2m$ and $5m^2$



- 4 Factorise each of the following expressions, by first finding the highest common factor (HCF).

a. $4x + 12y$

b. $5m + 15n$

c. $3x + 14b$

d. $7xy + 21z$

e. $-8a + 24b$

f. $8x - 4y$

g. $-12p + 2q$

h. $6p + 12pq + 18q$

i. $32x + 8y + 16z$

j. $16m - 4n + 24p$

k. $72x - 8y + 64pq$

l. $15a^2 + 3y$

m. $3p^2 + 20q$

n. $8x + 5$

o. $24p + 8q^2$

p. $7r + 42x^2y$

q. $16p^2 + 20q + 4$

r. $12 + 36a^2b + 24b^2$



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Table of Contents Math 2m J 14 Markschem

1. Understanding the eBook Math 2m J 14 Markschem
 - The Rise of Digital Reading Math 2m J 14 Markschem
 - Advantages of eBooks Over Traditional Books
2. Identifying Math 2m J 14 Markschem
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Math 2m J 14 Markschem
 - User-Friendly Interface
4. Exploring eBook Recommendations from Math 2m J 14 Markschem
 - Personalized Recommendations
 - Math 2m J 14 Markschem User Reviews and Ratings
 - Math 2m J 14 Markschem and Bestseller Lists
5. Accessing Math 2m J 14 Markschem Free and Paid eBooks
 - Math 2m J 14 Markschem Public Domain eBooks
 - Math 2m J 14 Markschem eBook Subscription Services
 - Math 2m J 14 Markschem Budget-Friendly Options

6. Navigating Math 2m J 14 Markschem eBook Formats
 - ePub, PDF, MOBI, and More
 - Math 2m J 14 Markschem Compatibility with Devices
 - Math 2m J 14 Markschem Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Math 2m J 14 Markschem
 - Highlighting and Note-Taking Math 2m J 14 Markschem
 - Interactive Elements Math 2m J 14 Markschem
8. Staying Engaged with Math 2m J 14 Markschem
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Math 2m J 14 Markschem
9. Balancing eBooks and Physical Books Math 2m J 14 Markschem
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Math 2m J 14 Markschem
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Math 2m J 14 Markschem
 - Setting Reading Goals Math 2m J 14 Markschem
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Math 2m J 14 Markschem
 - Fact-Checking eBook Content of Math 2m J 14 Markschem
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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