

## Dividing Polynomials

Divide by factorization method.

$$1) \frac{(4v + 2)(v - 6)^2}{4v^2 - 22v - 12}$$

$$2) \frac{4w^2 - 1}{(2w + 1)(2w - 1)}$$

$$3) \frac{7c^3 - 4c^2 - 28c}{c - 2}$$

$$5) \frac{18q^4 - 6q^3 - 12}{9q^2 + 6q}$$

$$7) \frac{(2t^2 + 9tu - 5u^2)(2t - u)}{4t^2 - 4tu + u^2}$$

$$8) \frac{49z^5 + 84z^4 + 36z^3}{7z + 6}$$

# PREVIEW

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)

$$- 3)$$

$$\frac{a^3 - 5a^2 - 9a + 15}{(a + 1)}$$

**Dividing Polynomials**

Divide by factorization method.

1) 
$$\frac{(4v + 2)(v - 6)^2}{4v^2 - 22v - 12}$$

2) 
$$\frac{4w^2 - 1}{(2w + 1)(2w - 1)}$$

3) 
$$\frac{7c^3 - 4c^2 - 28c}{c - 2}$$

5) 
$$\frac{18q^4 - 6q^3 - 12}{9q^2 + 6q}$$

7) 
$$\frac{(2t^2 + 9tu - 5u^2)(2t - u)}{4t^2 - 4tu + u^2}$$

8) 
$$\frac{49z^5 + 84z^4 + 36z^3}{7z + 6}$$

**v - 6****1****- 3)****PREVIEW**

Gain complete access to the largest collection of worksheets in all subjects!

Members, please log in to download this worksheet.

Not a member? Please sign up to gain complete access.

[www.mathworksheets4kids.com](http://www.mathworksheets4kids.com)**(c + 2)(7c - 4)****3 - 5a<sup>2</sup> - 9a + 15**  
**5)(a + 1)****2q(q - 1)****3)****t + 5u****z<sup>3</sup>(7z + 6)**