

Unit: Algebraic Expansions

Lesson: Expansion Revision

Grade: Nine

DATE: 5-Dec-25



SUBJECT: Math

GRADE: 9

UNIT: 1

Lesson: 1

01:00 minute

To expand an expression of the form a(b+c), the term outside the brackets must be multiplied by each term within the brackets

$$a(b+c) = ab + ac$$

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Expand

$$2x(x-y)$$





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01:00 minute

Expand and Simplify

$$6(2s-3)+2(s+2)$$





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01:00 minute

To expand an expression of the form

$$(a+b)(c+d)$$
,

each term in one pair of brackets must be multiplied by each term in the other pair of brackets.

$$= ac + ad + bc + bd$$



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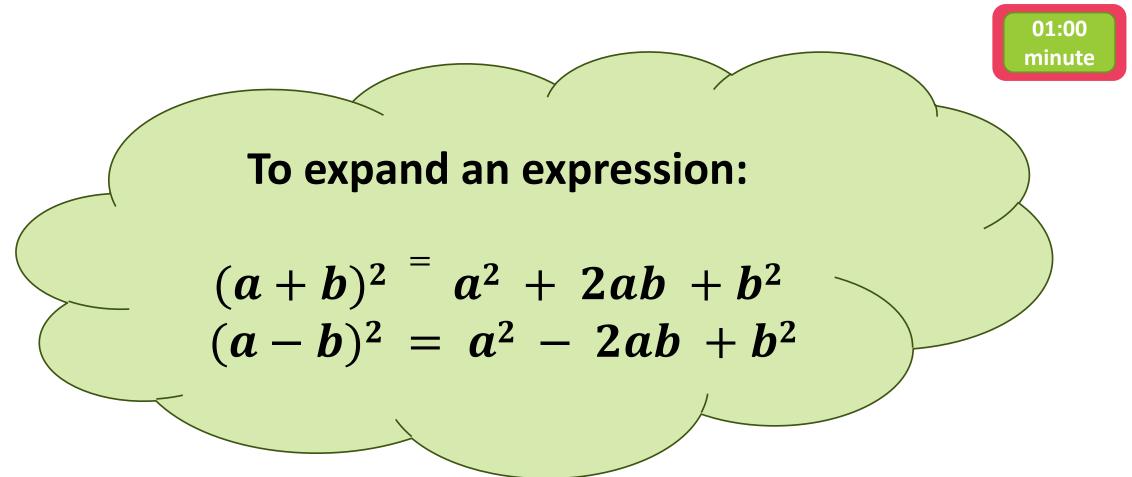
$$(2x+z)(z+x)$$

$$(y-2y)(x-z)$$



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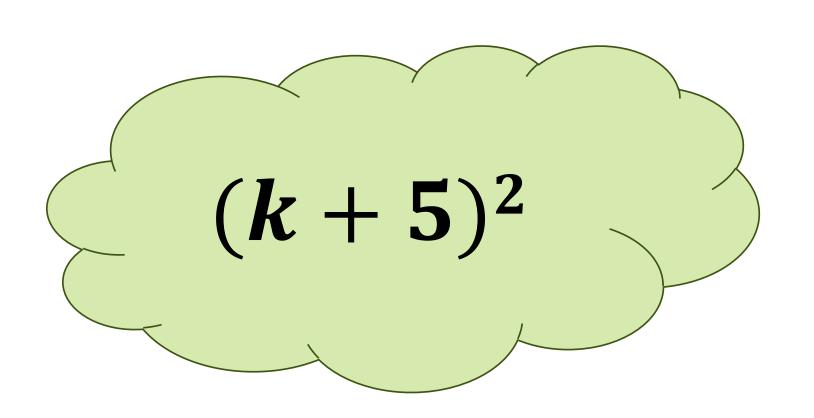


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minute

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Random pick

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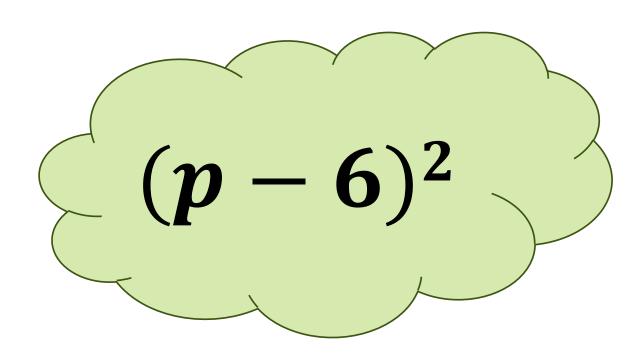
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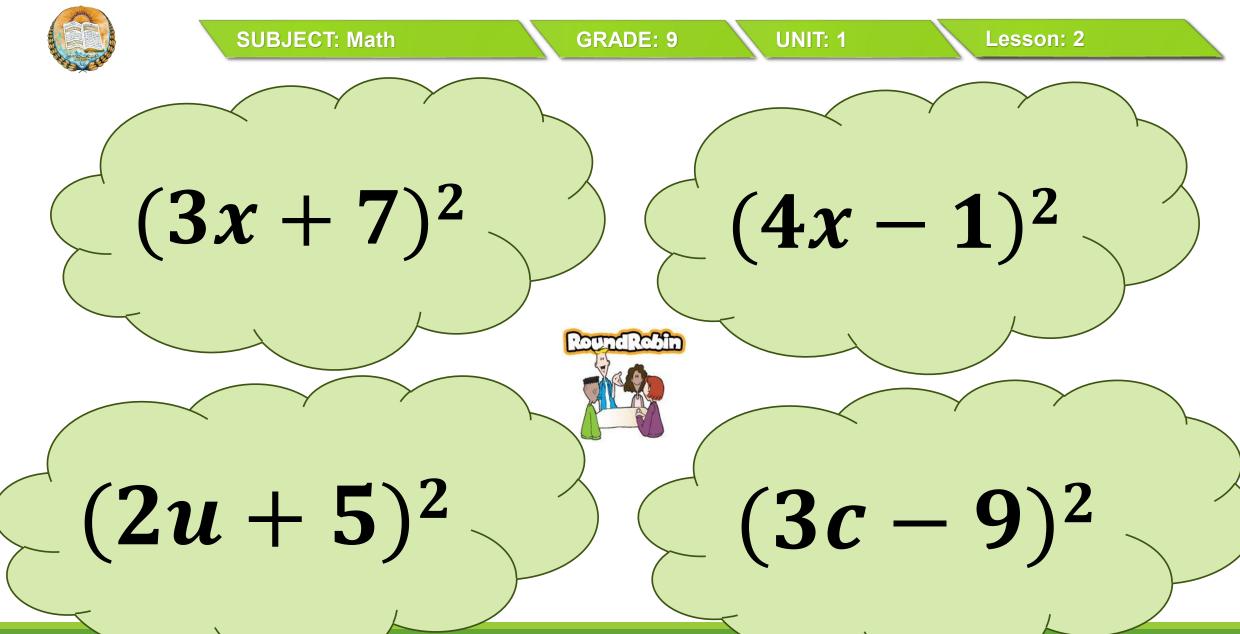
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Random pick

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Expansion of this expression

$$(a+b)(a-b)$$





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Difference of two squares: a² and b² (a² - b²)

$$(a+b)(a-b)$$



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$$(2x-4s)(2x+4s)$$

$$(1 + 5d)(1 - 5d)$$





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Expand this equation:

$$(y^2-9)(y^2+9)$$





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Factorization

$$ab + ac = a(b + c)$$

Expansion

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5x + 5y

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 $\chi^2 - \chi$

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$$x(x+2) + 3(x+2)$$





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UNIT: 1

$$9x^2 + 24x$$

$$yk(2k-3) + (2k-3)$$

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 $8a + 12a^2$





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Expansion

$$(a+b)^2 = a^2 + 2ab + b^2$$

Factorization

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$$a^2 - 6a + 9$$

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$$4X^2 + 4xy + y^2$$

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$$X^2 + 6xy + 9y^2$$



$$4X^2 + 8xy + 4y^2$$





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$$4a^2 + 4a + 1$$

$$18x^2 - 24x + 8$$





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UNIT: 1

Lesson: 5

Factorize the following:

$$x^2 - 4$$





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Factorize the following:

 $64 - a^2$

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Factorize the following:

$$x^2 - 225$$





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Factorize the following:

$$(x-1)^2-81$$





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$$4m^2 - 25$$

$$2y^2 - 18$$





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Lesson: 5

Evaluate the following:

$$73^2 - 27^2$$

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$$\sqrt{6.8^2 - 3.2^2}$$

$$\left(\frac{5}{7}\right)^2 - \left(\frac{2}{7}\right)^2$$





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Simplify the algebraic expression

6*e*

 $9e^2f$

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18d 9d²

27x
36

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$$\frac{(a-b)^2}{3(a-b)}$$

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$$\frac{(x+2)(x-3)}{(x-3)(x+4)}$$

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$$\frac{(x^2+4x)}{(x^2-16)}=$$

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$$\frac{8pq}{9r} \times \frac{3r}{4p}$$



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$$\left(\frac{2s}{3t^2}\right)\left(\frac{9st}{16}\right)$$

$$\left(\frac{5r}{12}\right)\left(\frac{3s}{10}\right)$$



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$$\left(\frac{4x}{15z}\right)\left(\frac{3z^2}{8}\right)$$

$$\left(\frac{14x}{5}\right)\left(\frac{10}{7y}\right)$$

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$$\left(\frac{4xy^2}{3s}\right) \times \left(\frac{6s^3}{x^2y}\right)$$

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$$\frac{6h}{7} \div \frac{2k}{14}$$

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$$\frac{4ac}{7} \div \frac{16c}{5a}$$

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$$\left(\frac{a(a-b)}{2b}\right) \div \left(\frac{a-3b}{4a}\right)$$

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$$\left(\frac{(2x-3)(2x+3)}{x}\right) \div \left(\frac{2x-3}{x^2}\right)$$

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$$\left(\frac{x+4}{x+5}\right) \div \left(\frac{3x+12}{x^2-25}\right)$$



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$$\frac{d}{3} = -6$$

$$-24u = -4$$

$$-\frac{h}{9} = -8$$

$$10c = -2$$

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$$3m + \frac{1}{5} = \frac{7}{5}$$

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UNIT: 2

$$2p - 0.6 = 4.2$$

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$$4(2x + 5) = 4$$

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$$2(3m-4)=5$$

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$$2(3-a)=7$$

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UNIT: 2

$$5(1-2v)=-25$$