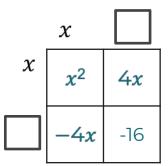
Maths



1. Fill in the blanks.



$$x^2 - 16 = (x + )(x - )$$

2. Factorise each expression

a) 
$$x^2 - 4$$

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 d)  $x^2 - 100$ 

b) 
$$x^2 - 9$$

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 e)  $x^2 - 400$ 

c) 
$$x^2 - 1$$

f) 
$$25 - x^2$$

3. Which expressions are equivalent?

$$(x-6)(x+6)$$
  $(x-6)(x-6)$ 

$$(x - 6)(x - 6)$$

$$x^2 - 6$$

$$x^2 - 36$$

$$x^2 + 6$$

$$36 - x^2$$

$$(x + 6) (x - 6)$$

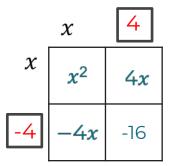
$$x^2 + 36$$



# **Answers**



1. Fill in the blanks.



$$x^2 - 16 = (x + 4)(x - 4)$$



2. Factorise each expression

a) 
$$x^2 - 4$$
  $(x + 2)(x - 2)$ 

b) 
$$x^2 - 9$$
  $(x + 3) (x - 3)$ 

c) 
$$x^2 - 1$$
  $(x + 1)(x - 1)$ 

d) 
$$x^2 - 100 (x + 10) (x - 10)$$

e) 
$$x^2 - 400 (x + 20) (x - 20)$$

f) 
$$25 - x^2$$
  $(5 + x)(5 - x)$ 

3. Which expressions are equivalent?

$$(x-6)(x+6)$$

$$x^{2}-6$$

$$x^{2}-36$$

$$x^{2}+6$$

$$36-x^{2}$$

$$(x+6)(x-6)$$

$$x^{2}+36$$

