

Back to [Exercise](#) ↩
Sheet 1 -- [2](#) -- [3](#) -- [4](#) -- [5](#) -- [6](#)

Five-Dimensional Tic-Tac-Toe

Rules of the game

Two or more players; **Six-in-a-row** wins the game.
Winning line can be in **any direction** - e.g., a **straight line** on a plane of **any two** of the **five** dimensions.

"Print and Play" (Basic game sheet 1 of 6)

1A11234561A21234561A31234561A41234561A51234561A6123456

a

b

c

d

e

f

1B11234561B21234561B31234561B41234561B51234561B6123456

a

b

c

d

e

f

1C11234561C21234561C31234561C41234561C51234561C6123456

a

b

c

d

e

f

1D11234561D21234561D31234561D41234561D51234561D6123456

a

b

c

d

e

f

1E11234561E21234561E31234561E41234561E51234561E6123456

a

b

c

d

e

f

1F11234561F21234561F31234561F41234561F51234561F6123456

a

b

c

d

e

f

Back

Back to [Exercise](#)

Sheet [1](#) -- [2](#) -- [3](#) -- [4](#) -- [5](#) -- [6](#)

Five-Dimensional Tic-Tac-Toe

Rules of the game

Two or more players, **Six-in-a-row** wins the game.
Winning line can be in **any direction** - e.g., a straight line on a plane of **any two** of the **five** dimensions.

"Print and Play" (Basic game sheet 2 of 6)

2A1

1 2 3 4 5 6

a

b

c

d

e

f

2A2

1 2 3 4 5 6

a

b

c

d

e

f

2A3

1 2 3 4 5 6

a

b

c

d

e

f

2A4

1 2 3 4 5 6

a

b

c

d

e

f

2A5

1 2 3 4 5 6

a

b

c

d

e

f

2A6

1 2 3 4 5 6

a

b

c

d

e

f

2B1

1 2 3 4 5 6

a

b

c

d

e

f

2B2

1 2 3 4 5 6

a

b

c

d

e

f

2B3

1 2 3 4 5 6

a

b

c

d

e

f

2B4

1 2 3 4 5 6

a

b

c

d

e

f

2B5

1 2 3 4 5 6

a

b

c

d

e

f

2B6

1 2 3 4 5 6

a

b

c

d

e

f

2C1

1 2 3 4 5 6

a

b

c

d

e

f

2C2

1 2 3 4 5 6

a

b

c

d

e

f

2C3

1 2 3 4 5 6

a

b

c

d

e

f

2C4

1 2 3 4 5 6

a

b

c

d

e

f

2C5

1 2 3 4 5 6

a

b

c

d

e

f

2C6

1 2 3 4 5 6

a

b

c

d

e

f

2D1

1 2 3 4 5 6

a

b

c

d

e

f

2D2

1 2 3 4 5 6

a

b

c

d

e

f

2D3

1 2 3 4 5 6

a

b

c

d

e

f

2D4

1 2 3 4 5 6

a

b

c

d

e

f

2D5

1 2 3 4 5 6

a

b

c

d

e

f

2D6

1 2 3 4 5 6

a

b

c

d

e

f

2E1

1 2 3 4 5 6

a

b

c

d

e

f

2E2

1 2 3 4 5 6

a

b

c

d

e

f

2E3

1 2 3 4 5 6

a

b

c

d

e

f

2E4

1 2 3 4 5 6

a

b

c

d

e

f

2E5

1 2 3 4 5 6

a

b

c

d

e

f

2E6

1 2 3 4 5 6

a

b

c

d

e

f

2F1

1 2 3 4 5 6

a

b

c

d

e

f

2F2

1 2 3 4 5 6

a

b

c

d

e

f

2F3

1 2 3 4 5 6

a

b

c

d

e

f

2F4

1 2 3 4 5 6

a

b

c

d

e

f

2F5

1 2 3 4 5 6

a

b

c

d

e

f

2F6

1 2 3 4 5 6

a

b

c

d

e

f

Back

Back to [Exercise](#)

Sheet [1](#) -- [2](#) -- [3](#) -- [4](#) -- [5](#) -- [6](#)

Five-Dimensional Tic-Tac-Toe

Rules of the game

Two or more players; Six-in-a-row wins the game.
Winning line can be in **any** direction - e.g., a straight line on a plane of **any two** of the **five** dimensions.

"Print and Play" (Basic game sheet 3 of 6)

3A1

1 2 3 4 5 6

a

b

c

d

e

f

3A2

1 2 3 4 5 6

a

b

c

d

e

f

3A3

1 2 3 4 5 6

a

b

c

d

e

f

3A4

1 2 3 4 5 6

a

b

c

d

e

f

3A5

1 2 3 4 5 6

a

b

c

d

e

f

3A6

1 2 3 4 5 6

a

b

c

d

e

f

3B1

1 2 3 4 5 6

a

b

c

d

e

f

3B2

1 2 3 4 5 6

a

b

c

d

e

f

3B3

1 2 3 4 5 6

a

b

c

d

e

f

3B4

1 2 3 4 5 6

a

b

c

d

e

f

3B5

1 2 3 4 5 6

a

b

c

d

e

f

3B6

1 2 3 4 5 6

a

b

c

d

e

f

3C1

1 2 3 4 5 6

a

b

c

d

e

f

3C2

1 2 3 4 5 6

a

b

c

d

e

f

3C3

1 2 3 4 5 6

a

b

c

d

e

f

3C4

1 2 3 4 5 6

a

b

c

d

e

f

3C5

1 2 3 4 5 6

a

b

c

d

e

f

3C6

1 2 3 4 5 6

a

b

c

d

e

f

3D1

1 2 3 4 5 6

a

b

c

d

e

f

3D2

1 2 3 4 5 6

a

b

c

d

e

f

3D3

1 2 3 4 5 6

a

b

c

d

e

f

3D4

1 2 3 4 5 6

a

b

c

d

e

f

3D5

1 2 3 4 5 6

a

b

c

d

e

f

3D6

1 2 3 4 5 6

a

b

c

d

e

f

3E1

1 2 3 4 5 6

a

b

c

d

e

f

3E2

1 2 3 4 5 6

a

b

c

d

e

f

3E3

1 2 3 4 5 6

a

b

c

d

e

f

3E4

1 2 3 4 5 6

a

b

c

d

e

f

3E5

1 2 3 4 5 6

a

b

c

d

e

f

3E6

1 2 3 4 5 6

a

b

c

d

e

f

3F1

1 2 3 4 5 6

a

b

c

d

e

f

3F2

1 2 3 4 5 6

a

b

c

d

e

f

3F3

1 2 3 4 5 6

a

b

c

d

e

f

3F4

1 2 3 4 5 6

a

b

c

d

e

f

3F5

1 2 3 4 5 6

a

b

c

d

e

f

3F6

1 2 3 4 5 6

a

b

c

d

e

f

Back

Back to [Exercise](#)

Sheet [1](#) -- [2](#) -- [3](#) -- [4](#) -- [5](#) -- [6](#)

Five-Dimensional Tic-Tac-Toe

Rules of the game

Two or more players; Six-in-a-row wins the game.
Winning line can be in *any* direction - e.g., a straight line on a plane of *any* two of the *five* dimensions.

"Print and Play" (Basic game sheet 4 of 6)

4A11234564A21234564A31234564A41234564A51234564A6123456

a

b

c

d

e

f

4B11234564B21234564B31234564B41234564B51234564B6123456

a

b

c

d

e

f

4C11234564C21234564C31234564C41234564C51234564C6123456

a

b

c

d

e

f

4D11234564D21234564D31234564D41234564D51234564D6123456

a

b

c

d

e

f

4E11234564E21234564E31234564E41234564E51234564E6123456

a

b

c

d

e

f

4F11234564F21234564F31234564F41234564F51234564F6123456

a

b

c

d

e

f

Back

[Back to Exercise](#)

Sheet 1 -- 2 -- 3 -- 4 -- 5 -- 6

Five-Dimensional Tic-Tac-Toe

Rules of the game Two or more players; **Six-in-a-row** wins the game.
Winning line can be in **any direction** - e.g., a **straight line** on a plane of **any two** of the **five** dimensions.

"Print and Play" (Basic game sheet 5 of 6)

5A1	1 2 3 4 5 6	5A2	1 2 3 4 5 6	5A3	1 2 3 4 5 6	5A4	1 2 3 4 5 6	5A5	1 2 3 4 5 6	5A6	1 2 3 4 5 6
a		a		a		a		a		a	
b		b		b		b		b		b	
c		c		c		c		c		c	
d		d		d		d		d		d	
e		e		e		e		e		e	
f		f		f		f		f		f	
5B1	1 2 3 4 5 6	5B2	1 2 3 4 5 6	5B3	1 2 3 4 5 6	5B4	1 2 3 4 5 6	5B5	1 2 3 4 5 6	5B6	1 2 3 4 5 6
a		a		a		a		a		a	
b		b		b		b		b		b	
c		c		c		c		c		c	
d		d		d		d		d		d	
e		e		e		e		e		e	
f		f		f		f		f		f	
5C1	1 2 3 4 5 6	5C2	1 2 3 4 5 6	5C3	1 2 3 4 5 6	5C4	1 2 3 4 5 6	5C5	1 2 3 4 5 6	5C6	1 2 3 4 5 6
a		a		a		a		a		a	
b		b		b		b		b		b	
c		c		c		c		c		c	
d		d		d		d		d		d	
e		e		e		e		e		e	
f		f		f		f		f		f	
5D1	1 2 3 4 5 6	5D2	1 2 3 4 5 6	5D3	1 2 3 4 5 6	5D4	1 2 3 4 5 6	5D5	1 2 3 4 5 6	5D6	1 2 3 4 5 6
a		a		a		a		a		a	
b		b		b		b		b		b	
c		c		c		c		c		c	
d		d		d		d		d		d	
e		e		e		e		e		e	
f		f		f		f		f		f	
5E1	1 2 3 4 5 6	5E2	1 2 3 4 5 6	5E3	1 2 3 4 5 6	5E4	1 2 3 4 5 6	5E5	1 2 3 4 5 6	5E6	1 2 3 4 5 6
a		a		a		a		a		a	
b		b		b		b		b		b	
c		c		c		c		c		c	
d		d		d		d		d		d	
e		e		e		e		e		e	
f		f		f		f		f		f	
5F1	1 2 3 4 5 6	5F2	1 2 3 4 5 6	5F3	1 2 3 4 5 6	5F4	1 2 3 4 5 6	5F5	1 2 3 4 5 6	5F6	1 2 3 4 5 6
a		a		a		a		a		a	
b		b		b		b		b		b	
c		c		c		c		c		c	
d		d		d		d		d		d	
e		e		e		e		e		e	
f		f		f		f		f		f	

[Back](#)

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Back to [Exercise](#)

Sheet 1 -- 2 -- 3 -- 4 -- 5 -- 6

Five-Dimensional Tic-Tac-Toe

Rules of the game

Two or more players; Six-in-a-row wins the game.
Winning line can be in **any direction** - e.g., a **straight line** on a plane of **any two** of the **five** dimensions.

"Print and Play" (Basic game sheet 6 of 6)

6A1 1 2 3 4 5 6 6A2 1 2 3 4 5 6 6A3 1 2 3 4 5 6 6A4 1 2 3 4 5 6 6A5 1 2 3 4 5 6 6A6 1 2 3 4 5 6

6B1 1 2 3 4 5 6 6B2 1 2 3 4 5 6 6B3 1 2 3 4 5 6 6B4 1 2 3 4 5 6 6B5 1 2 3 4 5 6 6B6 1 2 3 4 5 6

6C1 1 2 3 4 5 6 6C2 1 2 3 4 5 6 6C3 1 2 3 4 5 6 6C4 1 2 3 4 5 6 6C5 1 2 3 4 5 6 6C6 1 2 3 4 5 6

6D1 1 2 3 4 5 6 6D2 1 2 3 4 5 6 6D3 1 2 3 4 5 6 6D4 1 2 3 4 5 6 6D5 1 2 3 4 5 6 6D6 1 2 3 4 5 6

6E1 1 2 3 4 5 6 6E2 1 2 3 4 5 6 6E3 1 2 3 4 5 6 6E4 1 2 3 4 5 6 6E5 1 2 3 4 5 6 6E6 1 2 3 4 5 6

6F1 1 2 3 4 5 6 6F2 1 2 3 4 5 6 6F3 1 2 3 4 5 6 6F4 1 2 3 4 5 6 6F5 1 2 3 4 5 6 6F6 1 2 3 4 5 6

Back