

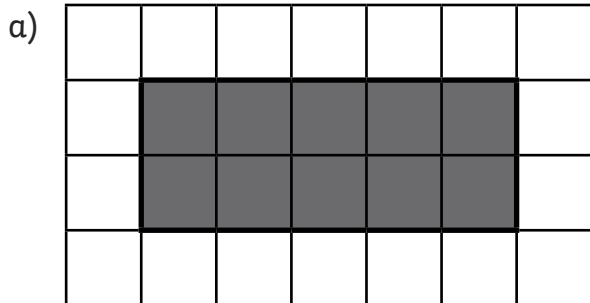


Calculating Area Using Arrays and Multiplication

I can calculate the area of rectilinear shapes using arrays and multiplication.



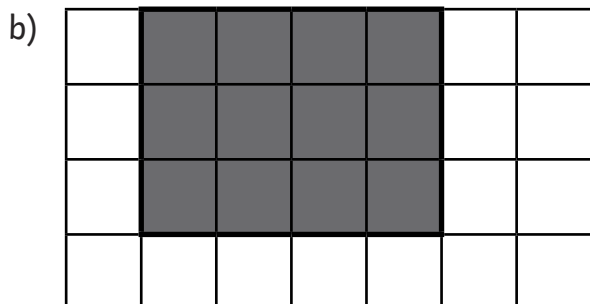
1. Draw arrays to calculate the area of these shapes. The first one has been done for you.



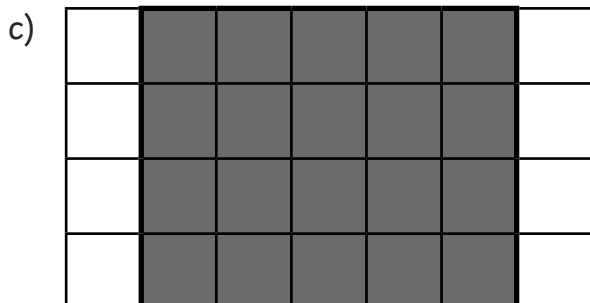
2 rows of 5

$$2 \times 5 = 10$$

area = 10 squares



<input type="text"/>	rows of	<input type="text"/>		
<input type="text"/>	×	<input type="text"/>	=	<input type="text"/>
area =	<input type="text"/>	squares		

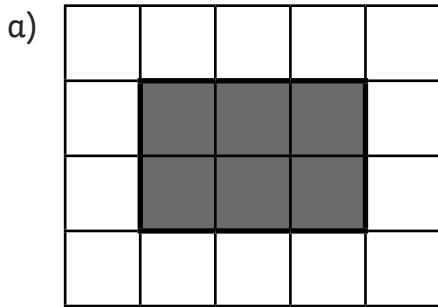


<input type="text"/>	rows of	<input type="text"/>		
<input type="text"/>	×	<input type="text"/>	=	<input type="text"/>
area =	<input type="text"/>	squares		



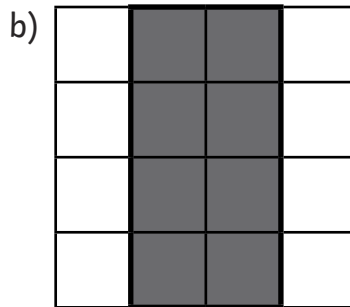
Calculating Area Using Arrays and Multiplication

2. Use multiplication to calculate the area of these shapes. The first one has been done for you.



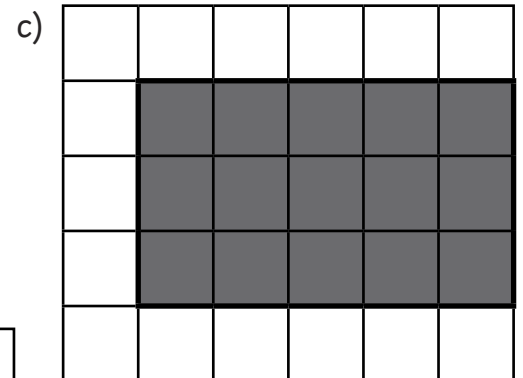
$$\square \times \square = \square$$

area = \square squares



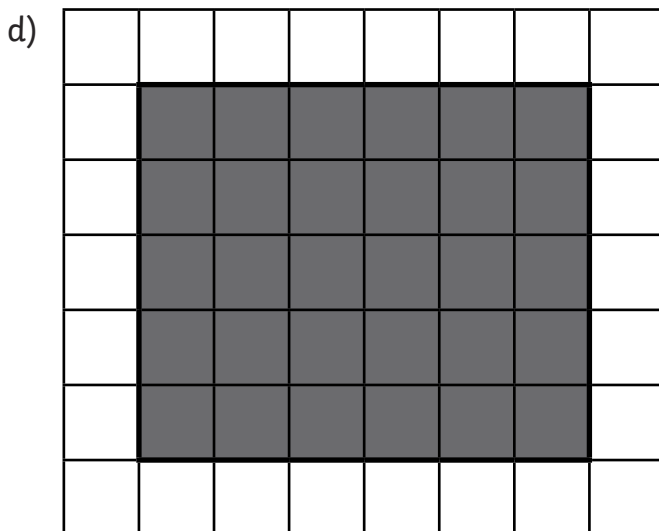
$$\square \times \square = \square$$

area = \square squares



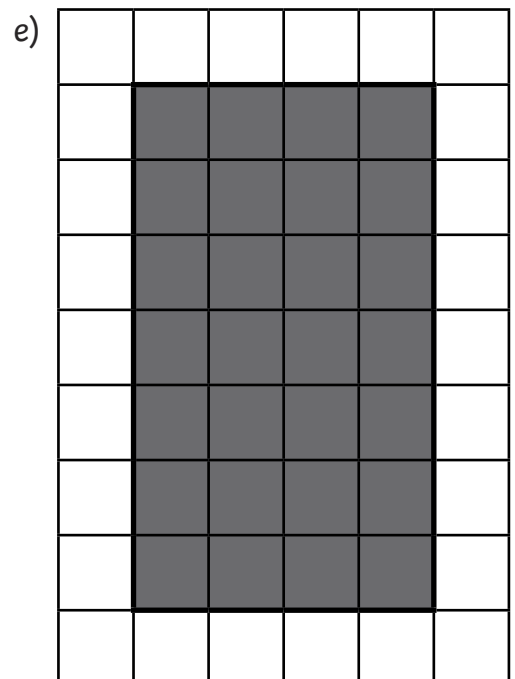
$$\square \times \square = \square$$

area = \square squares



$$\square \times \square = \square$$

area = \square squares



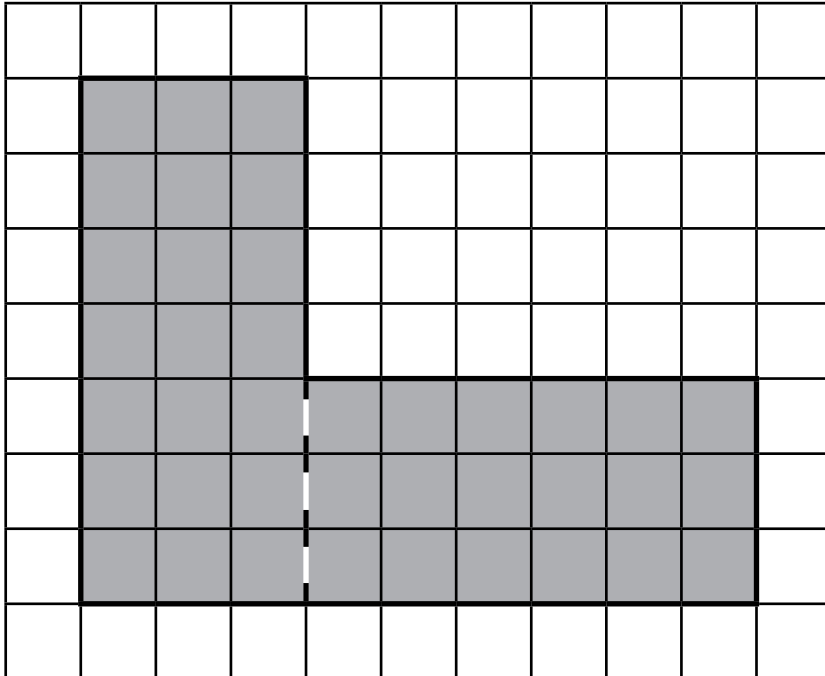
$$\square \times \square = \square$$

area = \square squares



Calculating Area Using Arrays and Multiplication

3. Calculate the area of this shape. It has been divided into two rectangles to help you. Show how you worked out the area.



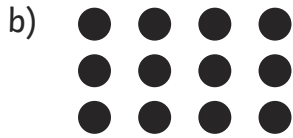
Show your working out:

area of whole shape =



Calculating Area Using Arrays and Multiplication **Answers**

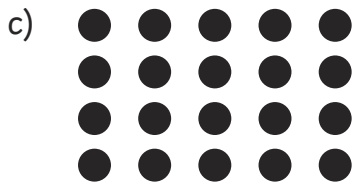
1. Draw arrays to calculate the area of these shapes. The first one has been done for you.



3 rows of 4

$$3 \times 4 = 12$$

area = 12 squares



4 rows of 5

$$4 \times 5 = 20$$

area = 20 squares

2. Use multiplication to calculate the area of these shapes. The first one has been done for you.

b) $2 \times 4 = 8$

area = 8 squares

c) $5 \times 3 = 15$

area = 15 squares

d) $6 \times 5 = 30$

area = 30 squares

e) $4 \times 7 = 28$

area = 28 squares

3. Calculate the area of this shape. It has been divided into two rectangles to help you. Show how you worked out the area.

area = 39 squares

Working out shows that the area of the 2 rectangles = 21 squares and 18 squares.



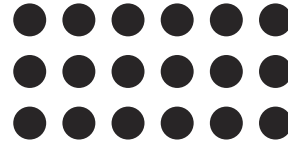
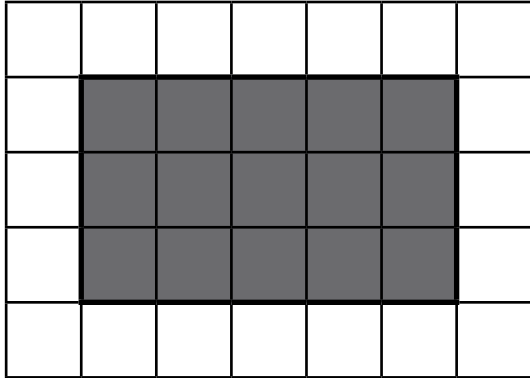
Calculating Area Using Arrays and Multiplication

I can calculate the area of rectilinear shapes using arrays and multiplication.



1. Draw arrays to calculate the area of these shapes. The first one has been done for you.

a)



3 rows of 6

$$3 \times 6 = 18$$

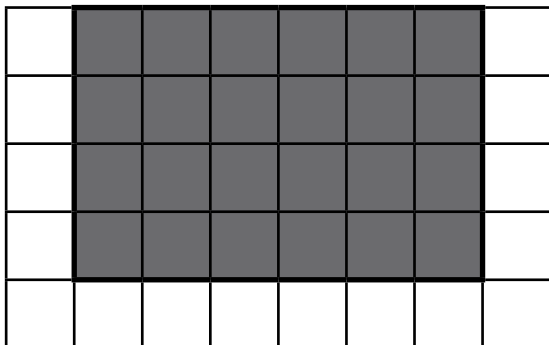
area = 18 squares

b)



<input type="text"/>	rows of	<input type="text"/>		
<input type="text"/>	\times	<input type="text"/>	=	<input type="text"/>
area =	<input type="text"/>	squares		

c)

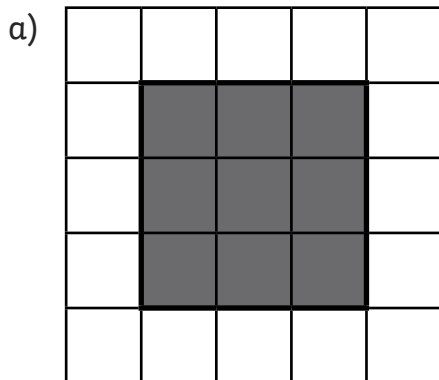


<input type="text"/>	rows of	<input type="text"/>		
<input type="text"/>	\times	<input type="text"/>	=	<input type="text"/>
area =	<input type="text"/>	squares		



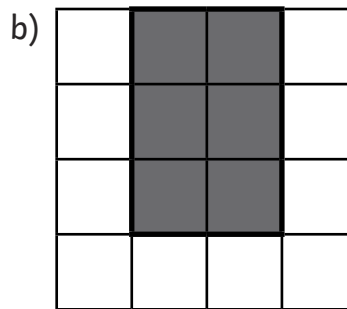
Calculating Area Using Arrays and Multiplication

2. Use multiplication to calculate the area of these shapes. The first one has been done for you.



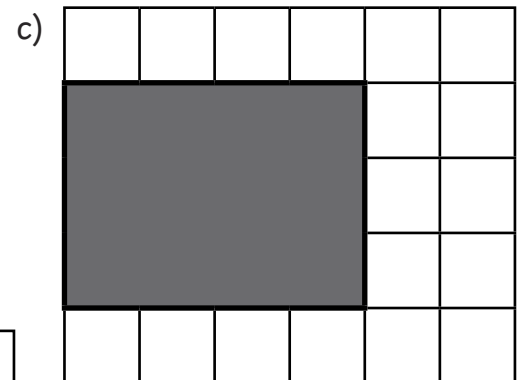
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



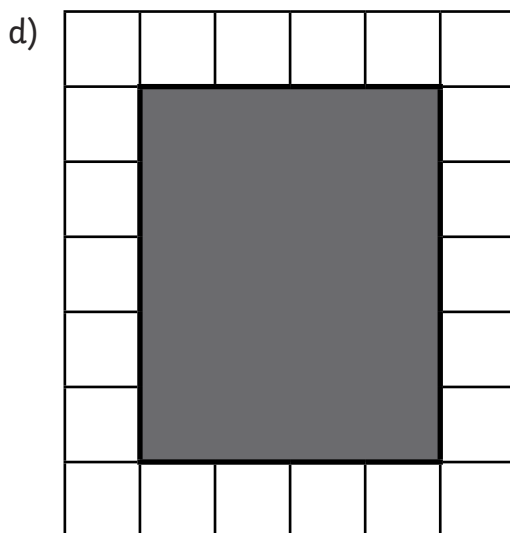
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



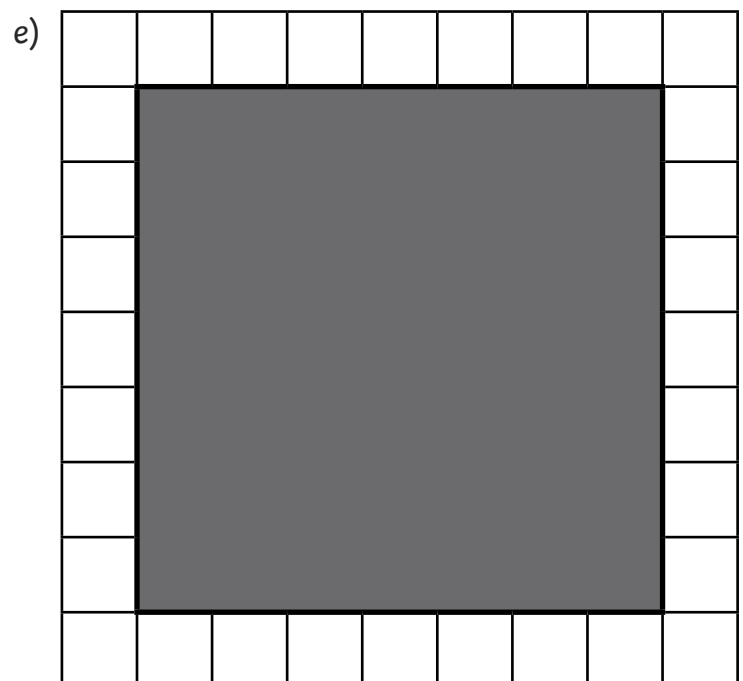
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



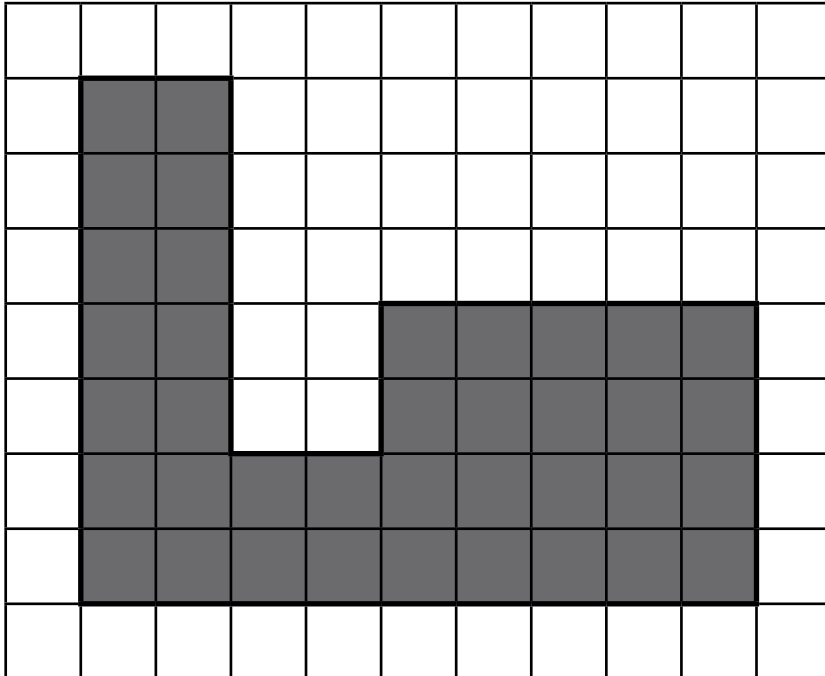
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



Calculating Area Using Arrays and Multiplication

3. Calculate the area of this shape. Divide the shape into smaller rectangles to help you. Show how you worked out the area.



Show your working out:

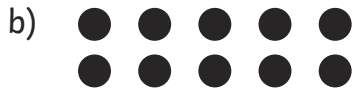
area of whole shape =



Calculating Area Using Arrays and Multiplication **Answers**

Accept multiplication calculations written either way round.

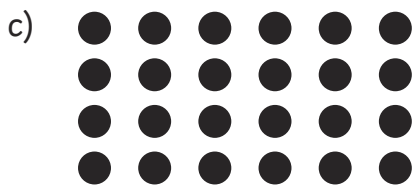
1. Draw arrays to calculate the area of these shapes. The first one has been done for you.



2 rows of 5

$$2 \times 5 = 10$$

area = 10 squares



4 rows of 6

$$4 \times 6 = 24$$

area = 24 squares

2. Use multiplication to calculate the area of these shapes. The first one has been done for you.

b) $2 \times 3 = 6$

area = 6 squares

c) $4 \times 3 = 12$

area = 12 squares

d) $4 \times 5 = 20$

area = 20 squares

e) $7 \times 7 = 49$

area = 49 squares

3. Calculate the area of this shape. Divide the shape into smaller rectangles to help you. Show how you worked out the area.

area = 38 squares

Working out shows that the shape has been divided into smaller rectangles and each has had the area calculated.

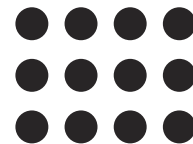
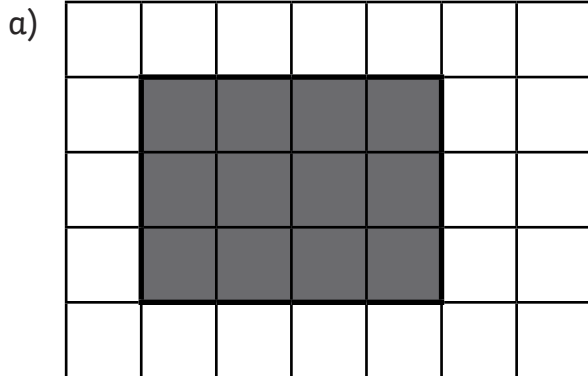


Calculating Area Using Arrays and Multiplication

I can calculate the area of rectilinear shapes using arrays and multiplication.



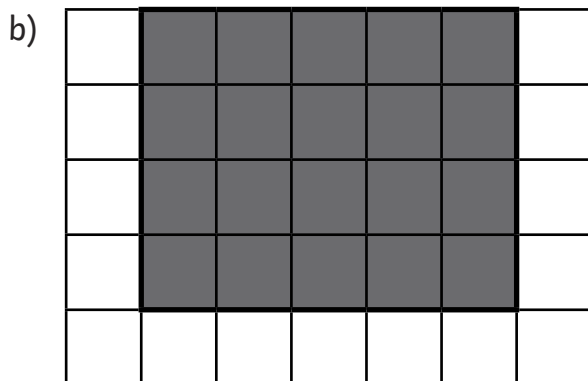
1. Draw arrays to calculate the area of these shapes. The first one has been done for you.



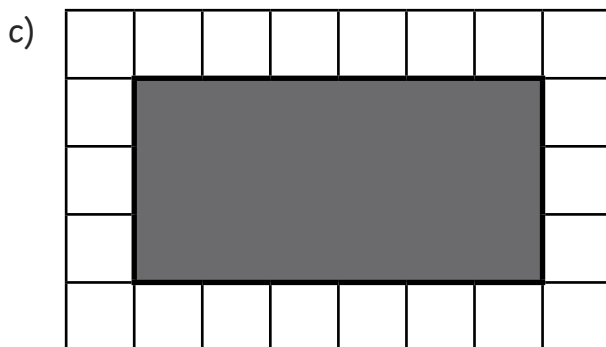
3 rows of 4

$$4 \times 3 = 12$$

area = 12 squares



<input type="text"/>	rows of	<input type="text"/>		
<input type="text"/>	\times	<input type="text"/>	=	<input type="text"/>
area =	<input type="text"/>	squares		

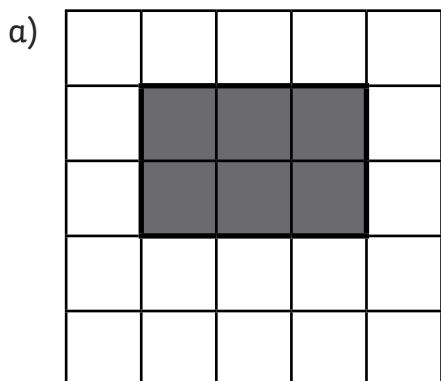


<input type="text"/>	rows of	<input type="text"/>		
<input type="text"/>	\times	<input type="text"/>	=	<input type="text"/>
area =	<input type="text"/>	squares		



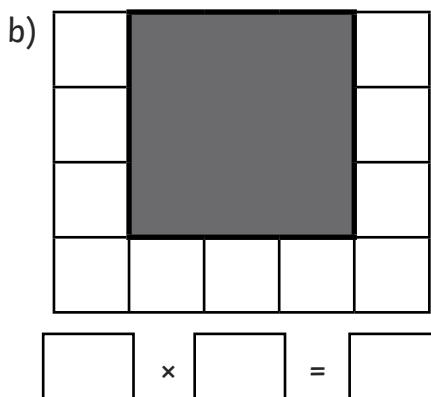
Calculating Area Using Arrays and Multiplication

2. Use multiplication to calculate the area of these shapes. The first one has been done for you.



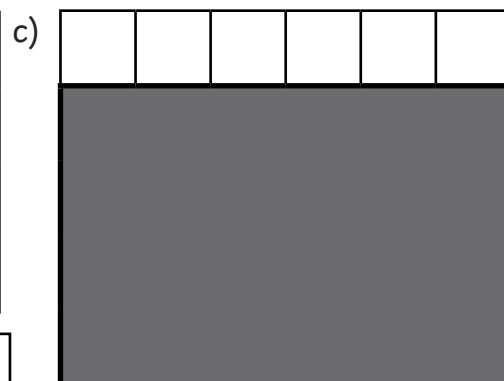
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



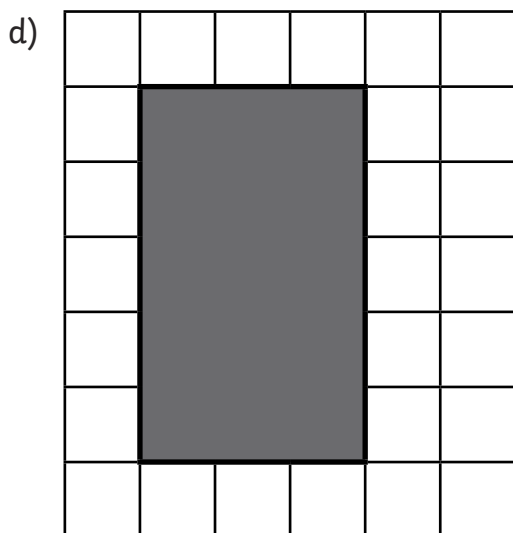
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



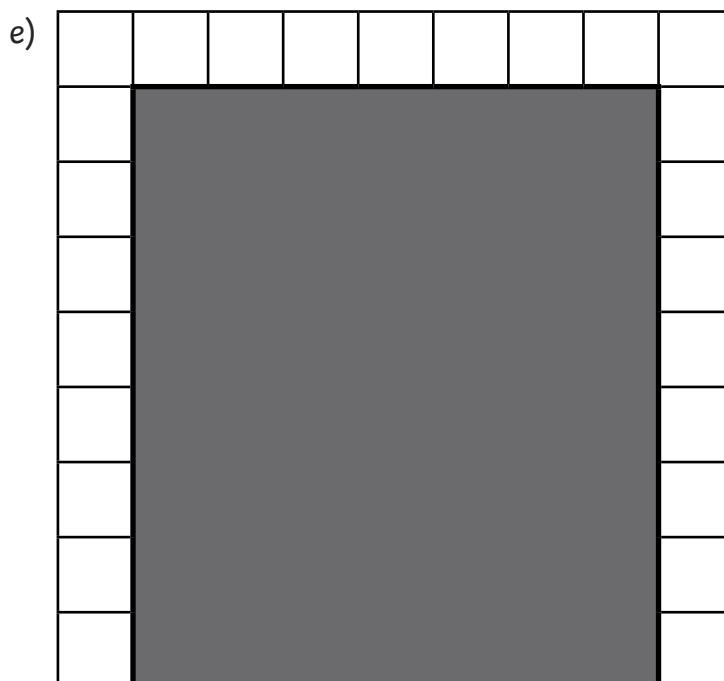
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



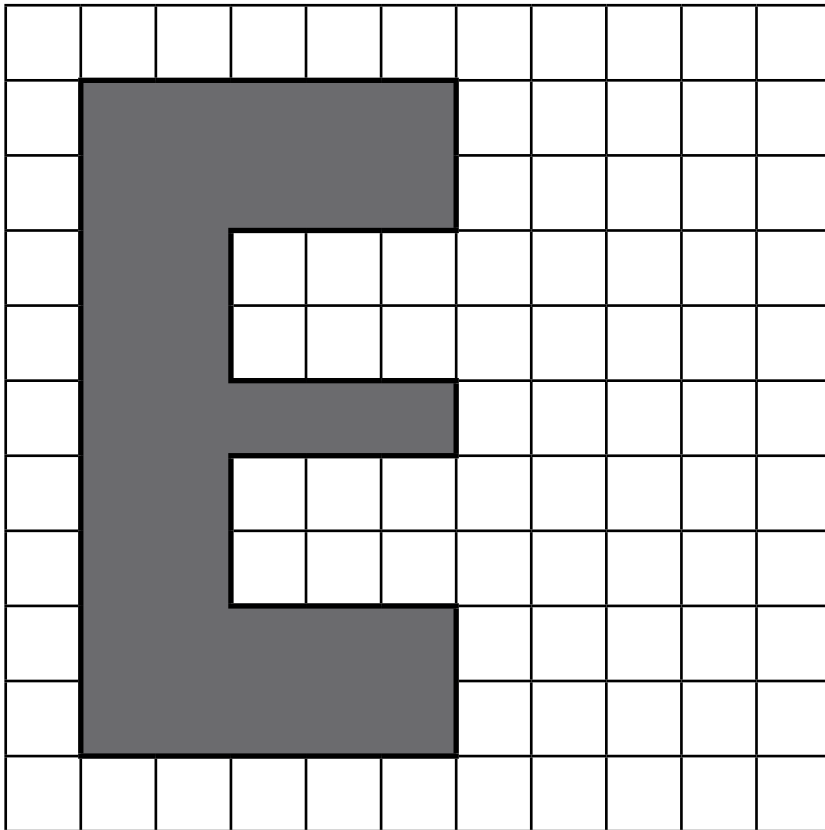
$$\square \times \square = \square$$

$$\text{area} = \square \text{ squares}$$



Calculating Area Using Arrays and Multiplication

3. Calculate the area of this shape. Divide the shape into smaller rectangles to help you. Show how you worked out the area.



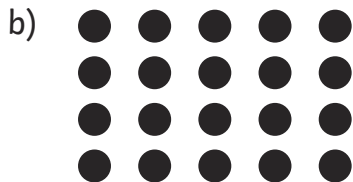
Show your working out:

area of whole shape =



Calculating Area Using Arrays and Multiplication **Answers**

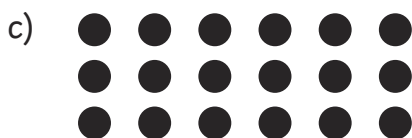
1. Draw arrays to calculate the area of these shapes. The first one has been done for you.



4 rows of 5

$$4 \times 5 = 20$$

area = 20 squares



3 rows of 6

$$3 \times 6 = 18$$

area = 18 squares

2. Use multiplication to calculate the area of these shapes. The first one has been done for you.

b) $3 \times 3 = 9$
area = 9 squares

c) $6 \times 4 = 24$
area = 24 squares

d) $3 \times 5 = 15$
area = 15 squares

e) $7 \times 8 = 56$
area = 56 squares

3. Calculate the area of this shape. Divide the shape into smaller rectangles to help you. Show how you worked out the area.

area = 33 squares

Working out shows that the shape has been divided into smaller rectangles and each has had the area calculated.