

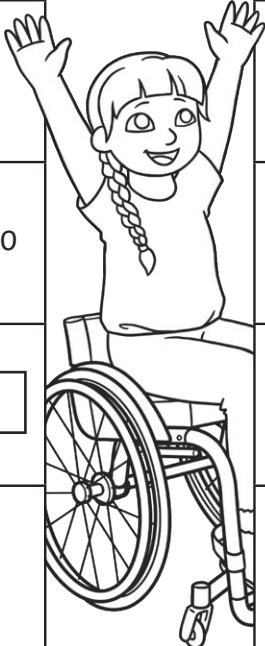

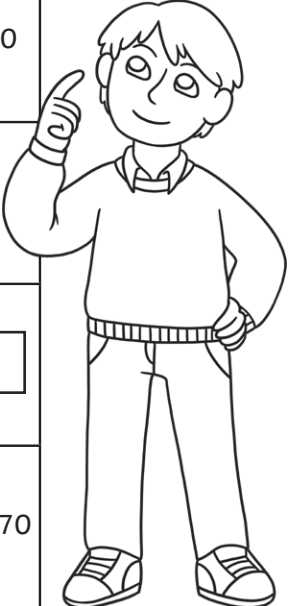
Missing Factors and Products Board Game

To understand and use the words 'factor' and 'product' when calculating.



Roll the dice and work out the missing factor or product from the multiplication you land on.

Top tips: Skip counting will help you work out the factors and products. Remember what happens when 0 or 1 is a factor.

$6 = 1 \times \square$	$4 \times 10 = \square$	Miss a go	$\square = 4 \times 5$	Miss a go	$\square \times 2 = 16$	$\square \times 8 = 0$	Finish
$3 \times 5 = \square$		$2 \times 2 = \square$	$\square \times 2 = 6$		$6 \times 5 = \square$	$2 \times 8 = \square$	
Go back to the start		$7 = 7 \times \square$	Move forward 2 spaces		Move forward 1 space	$\square = 6 \times 10$	
$\square \times 5 = 0$		Go forward 1 space	$0 = 4 \times \square$		$0 \times 7 = \square$	Miss a go	
$5 \times 2 = \square$		$8 \times 10 = \square$	$1 \times \square = 2$		$\square = 7 \times 5$	$8 \times 5 = \square$	
Start		$25 = \square \times 5$	$6 \times 2 = \square$	Move back 1 space	Move back 2 spaces	$\square = 1 \times 9$	$7 \times \square = 70$

Missing Factors and Products Board Game **Answers**

$6 = 1 \times 6$	$4 \times 10 = 40$	Miss a go		$20 = 4 \times 5$	Miss a go	$8 \times 2 = 16$		$0 \times 8 = 0$	Finish
$3 \times 5 = 15$		$2 \times 2 = 4$		$3 \times 2 = 6$		$6 \times 5 = 30$		$2 \times 8 = 16$	
Go back to the start		$7 = 7 \times 1$		Move forward 2 spaces		Move forward 1 space		$60 = 6 \times 10$	
$0 \times 5 = 0$		Go forward 1 space		$0 = 4 \times 0$		$0 \times 7 = 0$		Miss a go	
$5 \times 2 = 10$		$8 \times 10 = 80$		$1 \times 2 = 2$		$35 = 7 \times 5$		$8 \times 5 = 40$	
Start		$25 = 5 \times 5$	$6 \times 2 = 12$	Move back 1 space		Move back 2 spaces	$9 = 1 \times 9$	$7 \times 10 = 70$	




Missing Factors and Products Board Game

To understand and use the words 'factor' and 'product' when calculating.



Roll the dice and work out the missing factor or product from the multiplication you land on.

Top tips: Skip counting will help you work out the factors and products. Remember what happens when 0 or 1 is a factor.

$6 = 1 \times \square$	$4 \times 10 = \square$	Miss a go	$\square = 4 \times 5$	Miss a go	$\square \times 2 = 16$	$\square \times 8 = 0$	Finish
$3 \times 5 = \square$		$2 \times 2 = \square$	$\square \times 2 = 6$		$6 \times 5 = \square$	$2 \times 8 = \square$	
Go back to the start		$7 = 7 \times \square$	Move forward 2 spaces		Move forward 1 space	$\square = 6 \times 10$	
$\square \times 5 = 0$		Go forward 1 space	$0 = 4 \times \square$		$0 \times 7 = \square$	Miss a go	
$5 \times 2 = \square$		$8 \times 10 = \square$	$1 \times \square = 2$		$\square = 7 \times 5$	$8 \times 5 = \square$	
Start	$25 = \square \times 5$	$6 \times 2 = \square$	Move back 1 space		Move back 2 spaces	$\square = 1 \times 9$	$7 \times \square = 70$

Missing Factors and Products Board Game **Answers**

$6 = 1 \times 6$	$4 \times 10 = 40$	Miss a go		$20 = 4 \times 5$	Miss a go	$8 \times 2 = 16$		$0 \times 8 = 0$	Finish
$3 \times 5 = 15$		$2 \times 2 = 4$		$3 \times 2 = 6$		$6 \times 5 = 30$		$2 \times 8 = 16$	
Go back to the start		$7 = 7 \times 1$		Move forward 2 spaces		Move forward 1 space		$60 = 6 \times 10$	
$0 \times 5 = 0$		Go forward 1 space		$0 = 4 \times 0$		$0 \times 7 = 0$		Miss a go	
$5 \times 2 = 10$		$8 \times 10 = 80$		$1 \times 2 = 2$		$35 = 7 \times 5$		$8 \times 5 = 40$	
Start		$25 = 5 \times 5$	$6 \times 2 = 12$	Move back 1 space		Move back 2 spaces	$9 = 1 \times 9$	$7 \times 10 = 70$	



factor × factor = product

product = factor × factor

socks **3 × 2 = 6**

snowballs **10 = 2 × 5**

$$11 \times \boxed{0} = 0$$

$$\boxed{15} = 3 \times 5$$

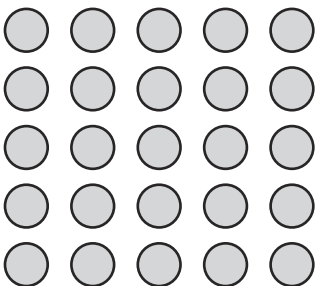
$$\boxed{1} \times 9 = 9$$

$$2 \times 10 = \boxed{20}$$



2 is a factor.	true
The product of 2 and 6 is 12.	true
12 is a factor.	false
2 is the product of 6 and 12.	false
6 times 2 equals 12.	true
The product is 12.	true

Benji's calculation is $5 \times 5 = 25$.





$$\square \times \square = 20$$

Possible factor pairs are 1 and 20, 2 and 10, 4 and 5. These can be written either way round.

$$2 \times \square < 1 \times 5$$

Possible factors are 0, 1 and 2.

$$0 \times \square = 0 \times 5$$

Any number could be used as a factor to make this correct. When a factor is zero, the product will be zero, whatever the other factor is.

$$2 \times 5 > 1 \times \square$$

The factor could be 0, 1, 2, 3, 4, 5, 6, 7, 8 or 9.

Factors and Products



Use the words **factor** and **product** to complete the calculations.

$$\text{factor} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

Write multiplication calculations to match the pictures.



$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



$$\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

Complete the missing factors and products.

$$11 \times \boxed{} = 0$$

$$\boxed{} = 3 \times 5$$

$$\boxed{} \times 9 = 9$$

$$2 \times 10 = \boxed{}$$

Factors and Products



Use the words **factor** and **product** to complete the calculations.

$$\text{factor} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

Write multiplication calculations to match the pictures.



$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



$$\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

Complete the missing factors and products.

$$11 \times \boxed{} = 0$$

$$\boxed{} = 3 \times 5$$

$$\boxed{} \times 9 = 9$$

$$2 \times 10 = \boxed{}$$

Factors and Products



Look at the calculation.

$$2 \times 6 = 12$$

Are these statements true or false?

How do you know?

2 is a factor.	
The product of 2 and 6 is 12.	
12 is a factor.	
2 is the product of 6 and 12.	
6 times 2 equals 12.	
The product is 12.	

Benji has written a multiplication calculation.



The factors in my calculations are both 5.

What is the product?
Write the calculation. Draw an array to represent his calculation.

Factors and Products



Look at the calculation.

$$2 \times 6 = 12$$

Are these statements true or false?

How do you know?

2 is a factor.	
The product of 2 and 6 is 12.	
12 is a factor.	
2 is the product of 6 and 12.	
6 times 2 equals 12.	
The product is 12.	

Benji has written a multiplication calculation.



The factors in my calculations are both 5.

What is the product?
Write the calculation. Draw an array to represent his calculation.

Factors and Products



What factors could make these statements correct?

$$\square \times \square = 20$$

$$2 \times \square < 1 \times 5$$

$$0 \times \square = 0 \times 5$$

$$2 \times 5 > 1 \times \square$$

Is there more than one way to fill in each missing number?



Factors and Products



What factors could make these statements correct?

$$\square \times \square = 20$$

$$2 \times \square < 1 \times 5$$

$$0 \times \square = 0 \times 5$$

$$2 \times 5 > 1 \times \square$$

Is there more than one way to fill in each missing number?



Factors and Prompts

Adult Guidance with Question Prompts



Children calculate mathematical statements for multiplication and write them using the multiplication and equals signs. They understand and use the words 'factor' and 'product'.

What is a factor?

What is a product?

Can you write a general calculation using these words?

How else could you write it?

Can you describe the groups you can see in the pictures?

How many groups are there?

How many in each group?

Which calculation has two as a factor?

Can you fill in the missing numbers in these calculations?

Is the missing number a factor or the product?

How do you know?

Explain how you know what the missing numbers are.

Factors and Products



Use the words **factor** and **product** to complete the calculations.

$$\text{factor} \times \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

$$\underline{\hspace{2cm}} = \underline{\hspace{2cm}} \times \underline{\hspace{2cm}}$$

Write multiplication calculations to match the pictures.



$$\underline{\hspace{1cm}} \times \underline{\hspace{1cm}} = \underline{\hspace{1cm}}$$



$$\underline{\hspace{1cm}} = \underline{\hspace{1cm}} \times \underline{\hspace{1cm}}$$

Complete the missing factors and products.

$$11 \times \square = 0$$

$$\square = 3 \times 5$$

$$\square \times 9 = 9$$

$$2 \times 10 = \square$$

Factors and Prompts

Adult Guidance with Question Prompts



Children calculate mathematical statements for multiplication and write them using the multiplication and equals signs. They understand and use the words 'factor' and 'product'.

What are the factors in this calculation?

What is the product?

Which of these statements are true?

Which are false?

How do you know?

Explain why the false statements are wrong.

How could you rewrite them so that they are true?

Can both the factors in a calculation be the same?

How would we write the calculation if both factors are five?

Can you skip count in fives to find the product?

Draw an array to represent five times five.

Can you draw another array where both factors are the same?

Can you write a calculation to match?

Factors and Products



Look at the calculation.

$$2 \times 6 = 12$$

Are these statements true or false?

How do you know?

2 is a factor.	
The product of 2 and 6 is 12.	
12 is a factor.	
2 is the product of 6 and 12.	
6 times 2 equals 12.	
The product is 12.	

Benji has written a multiplication calculation.



The factors in my calculations are both 5.

What is the product?

Write the calculation. Draw an array to represent his calculation.

Factors and Prompts

Adult Guidance with Question Prompts



Children calculate mathematical statements for multiplication and write them using the multiplication and equals signs. They understand and use the words 'factor' and 'product'.

If the product is 20, what could the factors be?

Is there more than one pair of factors that can have a product of 20?

What is the product of one times five?

What factor could we multiply by two to make a product less than five?

What is the product of zero times five?

What other factors could we have zero times to equal zero?

Could we choose any number to make this correct? Why?

What is the product of two times five?

What could we times by one to make a product less than ten?

Factors and Products



What factors could make these statements correct?

$$\square \times \square = 20$$

$$2 \times \square < 1 \times 5$$

$$0 \times \square = 0 \times 5$$

$$2 \times 5 > 1 \times \square$$

Is there more than one way to fill in each missing number?

