

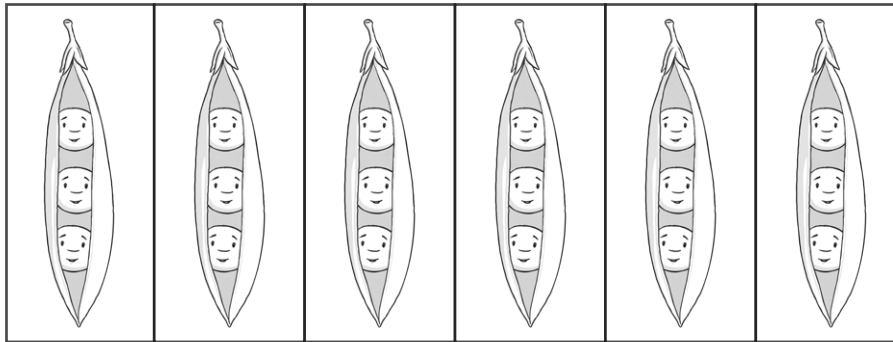


# Grouping Peas in Threes

I can recall and use facts from the 3x table.



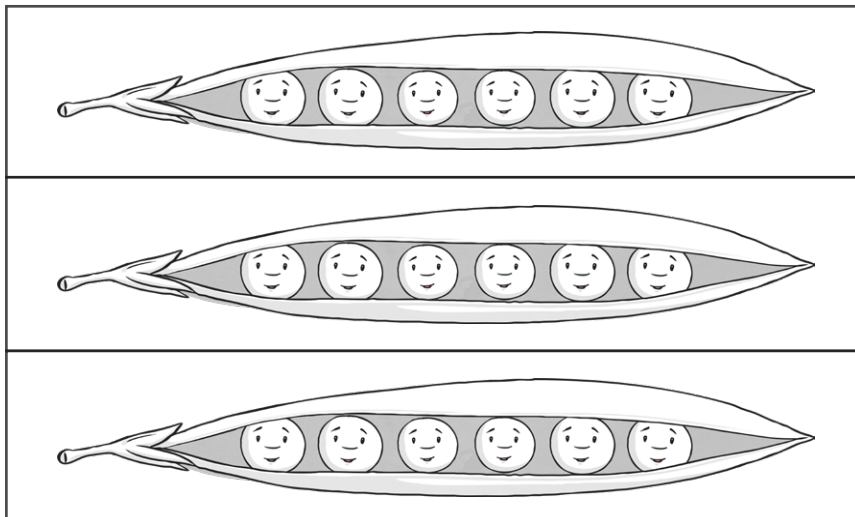
Count 18 counters. Put them in groups of 3 like this:



1. How many groups of 3 do you have?

2.  $3 \times \square = 18$

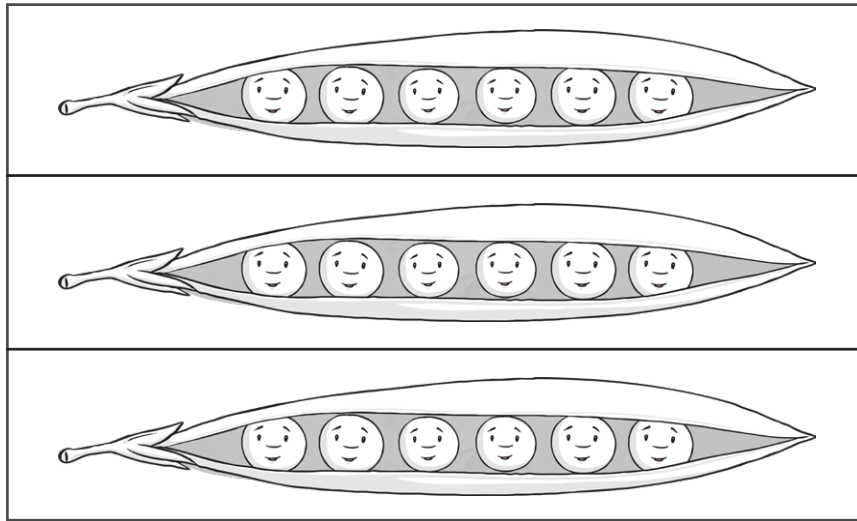
Now group them in groups of 6.



3.  $\square \times 3 = 18$



# Grouping Peas in Threes



Can you complete the 2 division statements which go with this group of peas?

4. 18 shared into 3 pods. How many peas in each pod?

$$18 \div 3 = \square$$

5. How many pods would we need if the peas were split into 3s?

$$18 \div \square = 3$$

6. Can you find 4 facts for each of these numbers?

Sketch the rows of peas out if you need to.

a. 24	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. 33	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. 6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. 27	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. 36	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

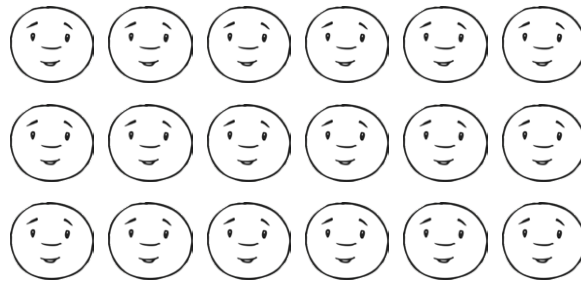


# Grouping Peas in Threes

I can recall and use facts from the  $3 \times$  table.



Write 2 multiplication facts and 2 division facts for each group of peas.



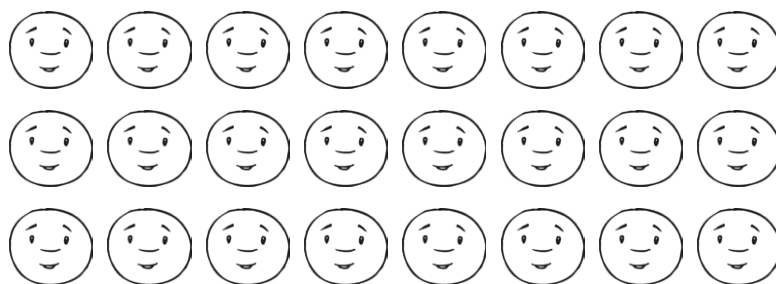
Complete these multiplication and division facts.

1.  $3 \times \square = 18$

3.  $18 \div \square = 3$

2.  $\square \times 3 = 18$

4.  $18 \div 3 = \square$



Complete these multiplication and division facts.

5.  $3 \times \square = \square$

7.  $\square \div \square = 3$

6.  $\square \times 3 = \square$

8.  $\square \div 3 = \square$



# Grouping Peas in Threes

9. Can you find 4 facts for each of these? Sketch the rows of peas out if you need to.

a. 27	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. 33	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. 6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. 30	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. 15	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

10.

a. There are 36 children in Mrs P. Pod's class. She puts them into groups of 3.  
*How many groups are there?*

<input type="text"/>
Answer = _____

b. Mr Mushy has 11 tins of peas. Mrs Green has 3 times as many.  
*How many tins of peas does Mrs Green have?*

<input type="text"/>
Answer = _____

c. Suzy Stalk has a jar containing 27 peas. She shares them fairly with her 2 friends Percy and Polly.  
*How many peas does each child get?*

<input type="text"/>
Answer = _____

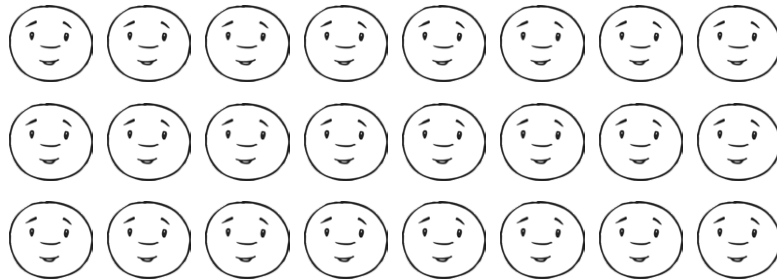


# Grouping Peas in Threes

I can recall and use facts from the 3x table.



Write 2 multiplication facts and 2 division facts for each group of peas.



1. How many peas can you see? Count the peas in 3s.

Complete these multiplication and division facts.

2.  $3 \times \square = \square$

3.  $\square \div \square = 3$

4.  $\square \times 3 = \square$

5.  $\square \div 3 = \square$

6. Can you find 4 facts for each of these? Sketch the rows of peas out if you need to.

a. 27	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
b. 33	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
c. 6	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
d. 30	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>
e. 15	<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>



# Grouping Peas in Threes

7. There are 36 children in Mrs P. Pod's class. She puts them into groups of 3.

*How many groups are there?*

	Answer = _____
--	----------------

8. Mr Mushy has 11 tins of peas. Mrs Green has 3 times as many.

*How many tins of peas does Mrs Green have?*

	Answer = _____
--	----------------

9. Suzy Stalk has a jar containing 27 peas. She shares them fairly with her 2 friends Percy and Polly.

*How many peas does each child get?*

	Answer = _____
--	----------------

10. Philip plants a pea in a pot of soil. He waters it every day and leaves it in the sunlight. Eventually there are 4 pods on the stalk, each containing 3 peas.

*How many peas are on Philip's pea plant?*

	Answer = _____
--	----------------

11. Now write a problem of your own to go with each of these number sentences.

a)  $18 \div 3 = 6$

b)  $27 \div 3 = 9$

c)  $24 \div 3 = 8$



# Grouping Peas in Threes

## Answers

Write 2 multiplication facts and 2 division facts for each group of peas.

1. How many groups of 3 do you have?

6

2.  $3 \times$    $= 18$

Now group them in groups of 6.

3.   $\times 3 = 18$

Can you complete the 2 division sentences which go with this group of peas?

4. 18 shared into 3 pods. How many peas in each pod?

$18 \div 3 =$

5. How many pods would we need to split 18 peas into 3 equal groups?

$18 \div$    $= 3$

6. How many pods would we need to split 18 peas into 3 equal groups?

a. 27	$9 \times 3 = 27$	$3 \times 9 = 27$	$27 \div 3 = 9$	$27 \div 9 = 3$
b. 33	$11 \times 3 = 33$	$3 \times 11 = 33$	$33 \div 3 = 11$	$33 \div 11 = 3$
c. 6	$2 \times 3 = 6$	$3 \times 2 = 6$	$6 \div 3 = 2$	$6 \div 2 = 3$
d. 30	$10 \times 3 = 30$	$3 \times 10 = 30$	$30 \div 3 = 10$	$30 \div 10 = 3$
e. 15	$5 \times 3 = 15$	$3 \times 5 = 15$	$15 \div 3 = 5$	$15 \div 5 = 3$



# Grouping Peas in Threes

## Answers

Write 2 multiplication facts and 2 division facts for each group of peas.

Complete these multiplication and division facts.

1.  $3 \times \boxed{6} = 18$

3.  $18 \div \boxed{6} = 3$

2.  $\boxed{6} \times 3 = 18$

4.  $18 \div 3 = \boxed{6}$

Complete these multiplication and division facts.

5.  $3 \times \boxed{8} = \boxed{24}$

7.  $\boxed{24} \div \boxed{8} = 3$

6.  $\boxed{8} \times 3 = \boxed{24}$

8.  $\boxed{24} \div 3 = \boxed{8}$

9. Can you find 4 facts for each of these? Sketch the rows of peas out if you need to.

a. 27	$9 \times 3 = 27$	$3 \times 9 = 27$	$27 \div 3 = 9$	$27 \div 9 = 3$
b. 33	$11 \times 3 = 33$	$3 \times 11 = 33$	$33 \div 3 = 11$	$33 \div 11 = 3$
c. 6	$2 \times 3 = 6$	$3 \times 2 = 6$	$6 \div 3 = 2$	$6 \div 2 = 3$
d. 30	$10 \times 3 = 30$	$3 \times 10 = 30$	$30 \div 3 = 10$	$30 \div 10 = 3$
e. 15	$5 \times 3 = 15$	$3 \times 5 = 15$	$15 \div 3 = 5$	$15 \div 5 = 3$





# Grouping Peas in Threes

## Answers

- 10.** There are 36 children in Mrs P. Pod's class. She puts them into groups of 3.  
*How many groups are there?*

$$\text{Answer} = 36 \div 3 = 12$$

- 11.** Mr Mushy has 11 tins of peas. Mrs Green has 3 times as many.  
*How many tins of peas does Mrs Green have?*

$$\text{Answer} = 11 \times 3 = 33$$

- 12.** Suzy Stalk has a jar containing 27 peas. She shares them fairly with her 2 friends Percy and Polly.  
*How many peas does each child get?*

$$\text{Answer} = 27 \div 3 = 9$$



# Grouping Peas in Threes

## Answers

Write 2 multiplication facts and 2 division facts for each group of peas.

1. How many peas can you see? Count the peas in 3s.

24

Complete these multiplication and division facts.

2.  $3 \times 8 = 24$

4.  $24 \div 8 = 3$

3.  $8 \times 3 = 24$

5.  $24 \div 3 = 8$

6. Can you find 4 facts for each of these? Sketch the rows of peas out if you need to.

a. 27	$9 \times 3 = 27$	$3 \times 9 = 27$	$27 \div 3 = 9$	$27 \div 9 = 3$
b. 33	$11 \times 3 = 33$	$3 \times 11 = 33$	$33 \div 3 = 11$	$33 \div 11 = 3$
c. 6	$2 \times 3 = 6$	$3 \times 2 = 6$	$6 \div 3 = 2$	$6 \div 2 = 3$
d. 30	$10 \times 3 = 30$	$3 \times 10 = 30$	$30 \div 3 = 10$	$30 \div 10 = 3$
e. 15	$5 \times 3 = 15$	$3 \times 5 = 15$	$15 \div 3 = 5$	$15 \div 5 = 3$



# Grouping Peas in Threes

## Answers

7. There are 36 children in Mrs P. Pod's class. She puts them into groups of 3.  
*How many groups are there?*

$$\text{Answer} = 36 \div 3 = 12$$

8. Mr Mushy has 11 tins of peas. Mrs Green has 3 times as many.  
*How many tins of peas does Mrs Green have?*

$$\text{Answer} = 11 \times 3 = 33$$

9. Suzy Stalk has a jar containing 27 peas. She shares them fairly with her 2 friends Percy and Polly.  
*How many peas does each child get?*

$$\text{Answer} = 27 \div 3 = 9$$

10. Philip plants a pea in a pot of soil. He waters it every day and leaves it in the sunlight. Eventually there are 4 pods on the stalk, each contains 3 peas.  
*How many peas are on Philip's pea plant?*

$$\text{Answer} = 4 \times 3 = 12$$

11. Now write a problem of your own to go with each of these number sentences.

a.  $18 \div 3 = 6$

b.  $27 \div 3 = 9$

c.  $24 \div 3 = 8$

Multiple answers possible.



- 1) a) 1 pod contains 3 peas.  
 b) 3 pods contain 9 peas.  
 c) 7 pods contain 21 peas.  
 d) 12 pods contain 36 peas.

2)  $5 \times 3 = 15$

$3 \div 5 = 15$

$3 \times 5 = 15$

$15 \div 3 = 5$

$5 \div 3 = 15$

3)

a) $1 \times 3 = 3$	b) $7 \times 3 = 21$
c) $2 \times 3 = 6$	d) $8 \times 3 = 24$
e) $3 \times 3 = 9$	f) $9 \times 3 = 27$
g) $4 \times 3 = 12$	h) $10 \times 3 = 30$
i) $5 \times 3 = 15$	j) $11 \times 3 = 33$
k) $6 \times 3 = 18$	l) $12 \times 3 = 36$

- 1) a) Pippa has made a mistake. This model shows  $7 \times 3 = 21$ , but the answer 24 has been given.  
 b) This model correctly shows  $3 \times 9 = 27$  or  $27 \div 3 = 9$ .  
 c) This model correctly shows  $3 \times 10 = 30$ .  
 d) Pippa has made a mistake. The second calculation doesn't show groups of 3.  
 e) This model correctly shows  $6 \times 3 = 18$ .  
 f) Pippa has made a mistake. The hoops do not contain equal shares of the 12 cubes.
- 2) The facts in the three times table increase by 3 each time. Three is an odd number. If you add two odd numbers, you will get an even number. When you then add an odd number to that, you will get an odd number. As you are always adding an odd number, the pattern "odd, even, odd, even..." will continue.





1)

<i>Rectangular tables</i>	<i>Circular tables</i>	<i>Chairs needed</i>
1	11	$(1 \times 3) + (11 \times 5) = 3 + 55 = 58$
2	10	$(2 \times 3) + (10 \times 5) = 6 + 50 = 56$
3	9	$(3 \times 3) + (9 \times 5) = 9 + 45 = 54$
4	8	$(4 \times 3) + (8 \times 5) = 12 + 40 = 52$
5	7	$(5 \times 3) + (7 \times 5) = 15 + 35 = 50$
6	6	$(6 \times 3) + (6 \times 5) = 18 + 30 = 48$
7	5	$(7 \times 3) + (5 \times 5) = 21 + 25 = 46$
8	4	$(8 \times 3) + (4 \times 5) = 24 + 20 = 44$
9	3	$(9 \times 3) + (3 \times 5) = 27 + 15 = 42$
10	2	$(10 \times 3) + (2 \times 5) = 30 + 10 = 40$
11	1	$(11 \times 3) + (1 \times 5) = 33 + 5 = 38$

2)

<i>Rectangular tables</i>	<i>Circular tables</i>
1	7
6	4
11	1

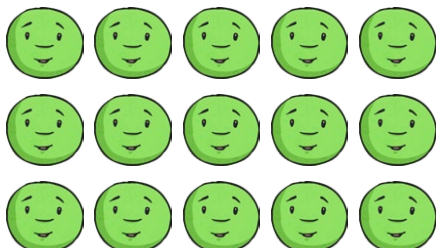


1) Complete these statements.

- a) 1 pod contains 3 peas.
- b) 3 pods contain \_\_\_\_\_ peas.
- c) \_\_\_\_\_ pods contain 21 peas.
- d) 12 pods contain \_\_\_\_\_ peas.



2) Which statements match this image? Circle them.



$5 \times 3 = 15$

$3 \div 5 = 15$

$3 \times 5 = 15$

$15 \div 3 = 5$

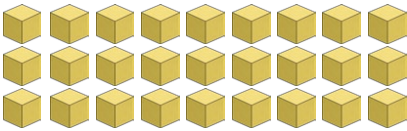
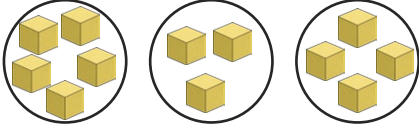
$5 \div 3 = 15$

3) Complete these statements.

a) $1 \times \underline{\quad} = 3$	b) $7 \times 3 = \underline{\quad}$
c) $\underline{\quad} \times 3 = 6$	d) $\underline{\quad} \times 3 = 24$
e) $3 \times 3 = \underline{\quad}$	f) $9 \times 3 = \underline{\quad}$
g) $4 \times \underline{\quad} = 12$	h) $\underline{\quad} \times 3 = 30$
i) $5 \times 3 = \underline{\quad}$	j) $11 \times 3 = \underline{\quad}$
k) $\underline{\quad} \times 3 = 18$	l) $\underline{\quad} \times 3 = 36$



1) Pippa has used different models to represent some facts from the three times table. Paulo says she has made some mistakes. Do you agree with Paulo? Explain your reasons.

<p>a)</p> <table border="1" style="margin-left: auto; margin-right: auto;"><tr><td colspan="7" style="text-align: center;">24</td></tr><tr><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td><td>3</td></tr></table>	24							3	3	3	3	3	3	3	<p>b)</p> 
24															
3	3	3	3	3	3	3									
<p>Explanation:</p>	<p>Explanation:</p>														
<p>c)</p> $2 \times 5 \times 3 = 30$	<p>d)</p> $4 \times 3$ $+$ $2 \times 2$														
<p>Explanation:</p>	<p>Explanation:</p>														
<p>e)</p> $3 + 3 + 3 + 3 + 3 + 3 = 18$	<p>f)</p> 														
<p>Explanation:</p>	<p>Explanation:</p>														

2) Paulo says, "Half of the numbers in the three times table are odd numbers." Explain why this is correct.

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Priya is planning how to arrange the tables in her new cafe.



**seats 3 people**



**seats 5 people**

- 1) Priya has a total of 12 tables but can't remember how many are rectangles and how many are circles. (She has at least one of each type of table.) How many people could she fit into the café? Find all the possibilities.

- 2) Priya thinks she will need enough seats for 38 people. How many of each table might she use? Find all the possibilities.

Explain to a friend how you worked systematically.

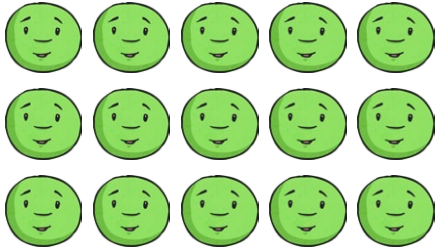


1) Complete these statements.



- a) 1 pod contains 3 peas.
- b) 3 pods contain \_\_\_\_\_ peas.
- c) \_\_\_\_\_ pods contain 21 peas.
- d) 12 pods contain \_\_\_\_\_ peas.

2) Which statements match this image? Circle them.



$5 \times 3 = 15$

$3 \div 5 = 15$

$3 \times 5 = 15$

$15 \div 3 = 5$

$5 \div 3 = 15$

3) Complete these statements.

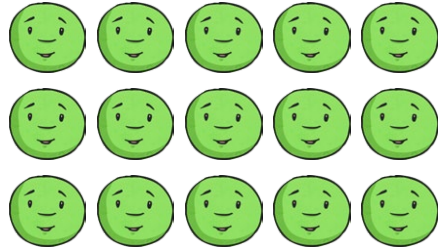
a) $1 \times \underline{\hspace{2cm}} = 3$	b) $7 \times 3 = \underline{\hspace{2cm}}$
c) $\underline{\hspace{2cm}} \times 3 = 6$	d) $\underline{\hspace{2cm}} \times 3 = 24$
e) $3 \times 3 = \underline{\hspace{2cm}}$	f) $9 \times 3 = \underline{\hspace{2cm}}$
g) $4 \times \underline{\hspace{2cm}} = 12$	h) $\underline{\hspace{2cm}} \times 3 = 30$
i) $5 \times 3 = \underline{\hspace{2cm}}$	j) $11 \times 3 = \underline{\hspace{2cm}}$
k) $\underline{\hspace{2cm}} \times 3 = 18$	l) $\underline{\hspace{2cm}} \times 3 = 36$

1) Complete these statements.



- a) 1 pod contains 3 peas.
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$5 \times 3 = 15$

$3 \div 5 = 15$

$3 \times 5 = 15$

$15 \div 3 = 5$

$5 \div 3 = 15$

3) Complete these statements.

a) $1 \times \underline{\hspace{2cm}} = 3$	b) $7 \times 3 = \underline{\hspace{2cm}}$
c) $\underline{\hspace{2cm}} \times 3 = 6$	d) $\underline{\hspace{2cm}} \times 3 = 24$
e) $3 \times 3 = \underline{\hspace{2cm}}$	f) $9 \times 3 = \underline{\hspace{2cm}}$
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- 1) Pippa has used different models to represent some facts from the three times table. Paulo says she has made some mistakes. Do you agree with Paulo? Explain your reasons.



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24															
3	3	3	3	3	3	3									
<p>c)</p> $2 \times 5 \times 3 = 30$	<p>d)</p> $\begin{array}{r} 4 \times 3 \\ + \\ 2 \times 2 \end{array}$														
<p>e)</p> $\begin{array}{r} 3 + 3 + 3 + 3 + 3 + 3 \\ = 18 \end{array}$	<p>f)</p>														

- 2) Paulo says, "Half of the numbers in the three times table are odd numbers." Explain why this is correct.

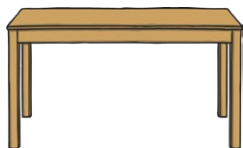
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Priya is planning how to arrange the tables in her new cafe.



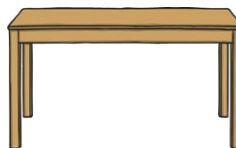
seats 3 people



seats 5 people

- 1) Priya has a total of 12 tables but can't remember how many are rectangles and how many are circles. (She has at least one of each type of table.) How many people could she fit into the café? Find all the possibilities.
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