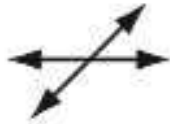
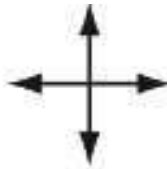


J



K



L



M



N



O

Questions

Answers

1. What does parallel mean and which two letters show parallel lines?

Parallel means never cross.
Letters J and N show parallel lines

2. What does intersect mean? Which letters show intersecting lines?

Intersect means to cross.
K, L, M and O all show intersecting lines.

3. What does perpendicular mean? Which letters show perpendicular lines?

Perpendicular means to cross at a right angle (like an L)
L and O appear to be perpendicular.

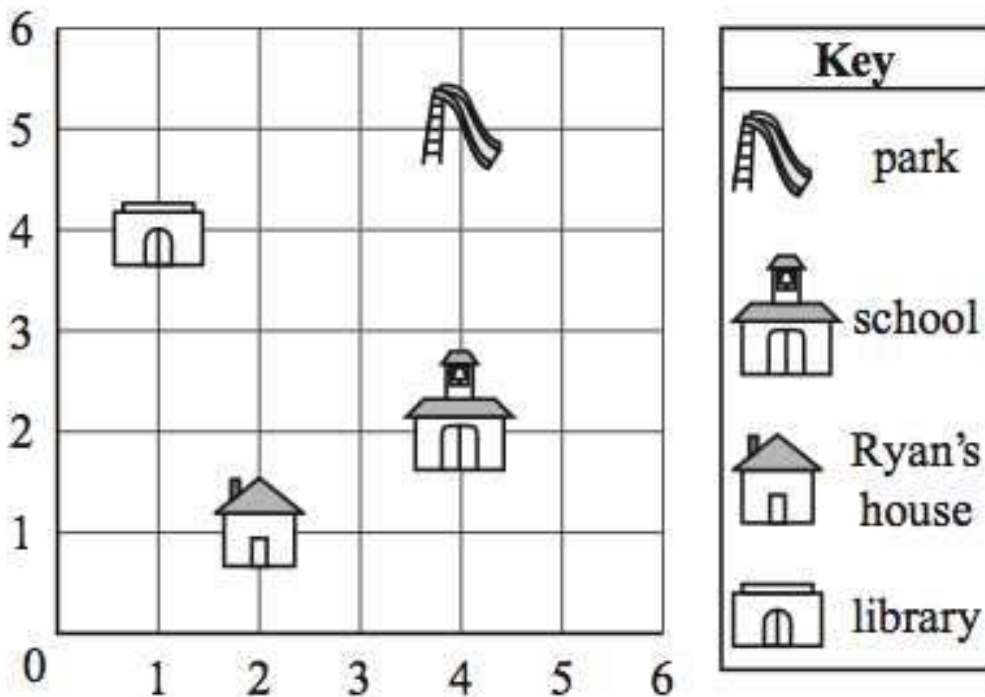
4. Give an example of parallel and perpendicular lines in real life.

Parallel lines = train tracks,
Parallel = opposite sides of rectangle.
Perpendicular would be like a cross or where the wall meets the floor.

14

The map below shows some of the places in Ryan's neighborhood.

Ryan's Neighborhood

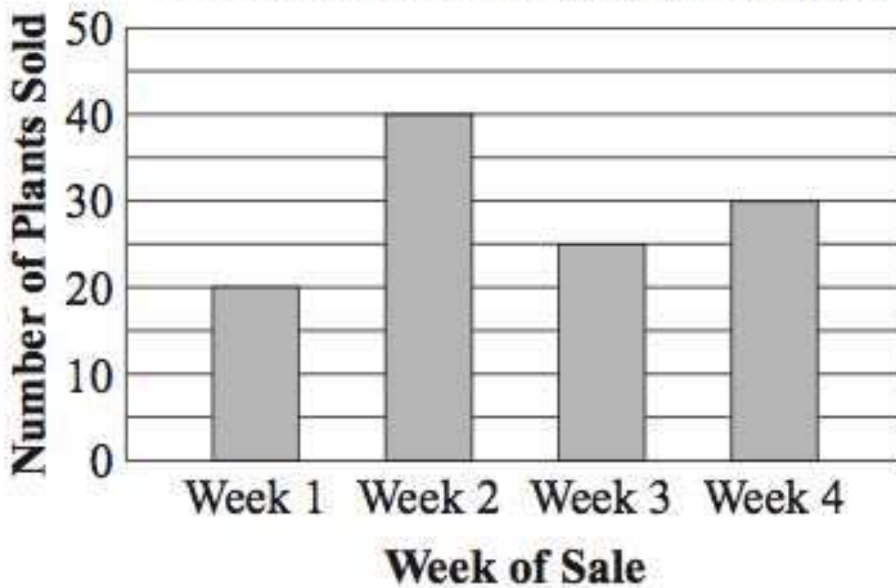


Questions

Answers

1. Who is in this graph and what is it showing?	It shows Ryan's neighborhood.
2. What is this kind of graph called?	It is called a coordinate grid or sometimes just a grid graph.
3. What are ordered pairs and what is the location of the school?	Two numbers that describe where something is on a grid. The school is (4,2)
4. According the grid and the key, what is located at the point (4,5)	At (4,5) you have a slide which represents a park.
5. If you walked along the grid lines, how far would it be from Ryan's house to the library?	Ryan would need to walk up 3 blocks and then over 1 block. It's a total of 4 blocks.

Plants Sold at Franklin School






Questions


Answers

1. What kind of graph is this and what does it show?	It's a bar graph and it shows the number of plants sold each week at the Franklin School.
2. How many more plants were sold Week 3 than Week 1?	Week 3 = 25 Week 1 = 20 To find difference $25 - 20$ 5 plants
3. How would you find the total plants sold?	Add all the bars together. $20 + 40 + 25 + 30 = 115$ plants
4. The number of plants sold in Week 5 was five less than the sum of Week 1 and Week 2. How many plants were sold week 5?	$\text{Week 5} = (\text{week 1} + \text{week 2}) - 5$ $\text{Week 5} = (20 + 40) - 5$ $\text{Week 5} = 60 - 5$ Week 5 = sold 55 plants

The pictograph below shows the numbers of cars that passed Center School at different times one morning.

Cars Passing Center School

Time	Number of Cars
From 9:00 to 10:00	
From 10:00 to 11:00	
From 11:00 to 12:00	

Key
 stands for 5 cars

Questions

Answers

1. What kind of graph is this and what does this graph show?	It's called a picto-graph. It shows the number of cars that passed Center School at different times one morning.
2. What does the key show and why is it important?	The key shows what each car in the picture represents or stands for. It's important because you can't solve questions without it!
3. How would you find the difference between the lowest and highest?	Use the key to count by 5's. Get the two totals and subtract.
4. How would you find the total?	Count all the cars by 5's or count all the cars and multiply by 5.

25

The number of students at Park Hill School who were absent each day last week is shown in the tally chart below.

Students Absent at Park Hill School

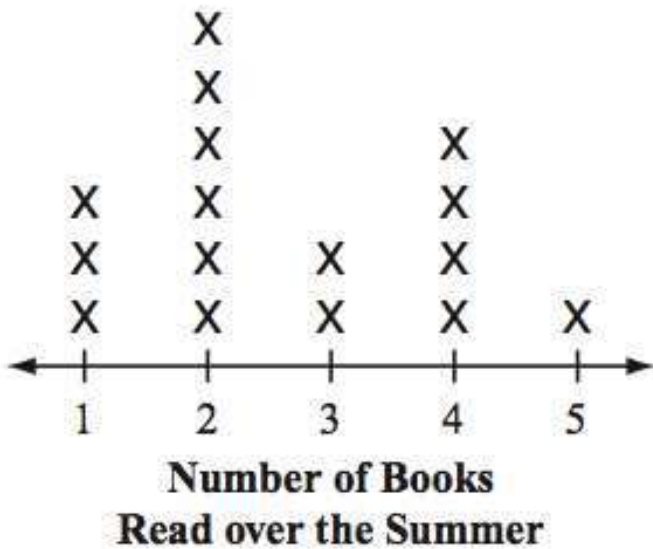
Day	Number of Students
Monday	
Tuesday	
Wednesday	
Thursday	
Friday	

Questions

Answers

What is these marks called?	Tally marks.
What is this table show?	How many students and what days they are absent at Park Hill School.
How are tally marks helpful? How can you count them quickly?	They show groups of 5. You count by 5's and add the rest. It's an easy way to record things.
How many students were absent Friday?	$5 + 5 + 5 = 15$ students absent
How many more absent Friday than Thursday?	Friday = 15 Thursday = 8 $15 - 8 = 7$ 7 Students
How many absent in all?	8 groups of 5 = 40 7 single tallies $40 + 7 = 47$ students in all

The line plot below shows the numbers of books some students read over the summer.

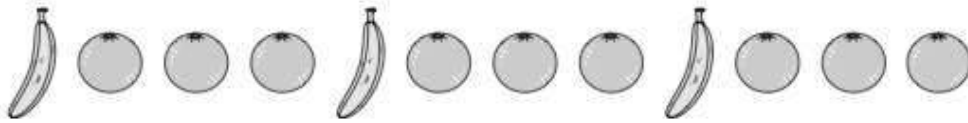


Questions

Answers

What is this graph called? What is it showing?	A line plot The number of books students read over the summer.
What does each x stand for?	Each x stands for a student and how many books he/she read.
How many students read 3 books?	2 students read 3 books.
How many students read fewer than 3?	$6 + 3 = 9$ students read fewer than 3.
Shelly said only one person read more than her. How many books did Shelly read?	Shelly read 4 books. There is only 1 person who read 5.
How do you find the total books read?	Add all the x's. $3 + 6 + 2 + 4 + 1 = 16$ students
What fraction read 1 book?	$1/16$
What is the mode of this data?	Mode is most frequent. The mode is 2 books.
What is the median? How do you find the median?	The middle number. Count over from each end.
What is the range of the data?	Range = maximum - minimum Range = $5 - 1$ Range = 4 books

Zoey is using bananas and oranges to make the pattern shown below. The rule for her pattern is ABBB.



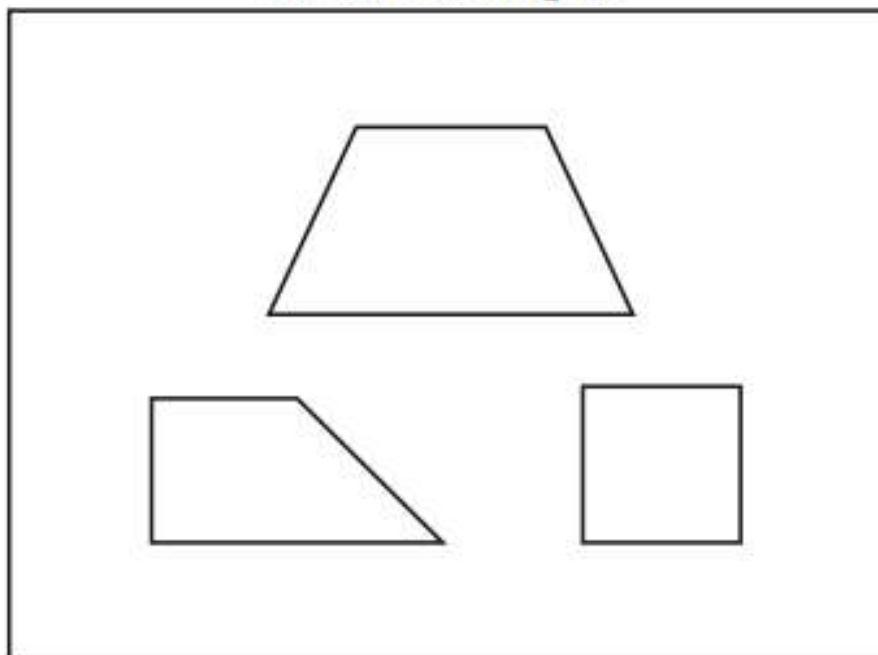
Zoey will follow the rule for her pattern a total of 4 times.

Questions

Answers

Who and what is the problem about?	Zoey is making a pattern with bananas and oranges.
What is her rule? What does this mean?	ABBB means after the first item, the second item repeats three times.
According to the problem, how many times will Zoey repeat her pattern?	Four times.
What will come next in Zoey's pattern?	A banana
How many times has Zoey repeated the pattern so far?	3 times.
If Zoey repeats her pattern 4 times, how many oranges will she use?	Orange is repeated 3 times in 1 pattern. 4 patterns means $3 \times 4 = 12$ 12 oranges will be used.
What are good strategies for this problem?	Look for patterns, draw it out, use a number sentence, show your work.
What is another pattern besides ABBB that you could make?	AABB AAAB AB

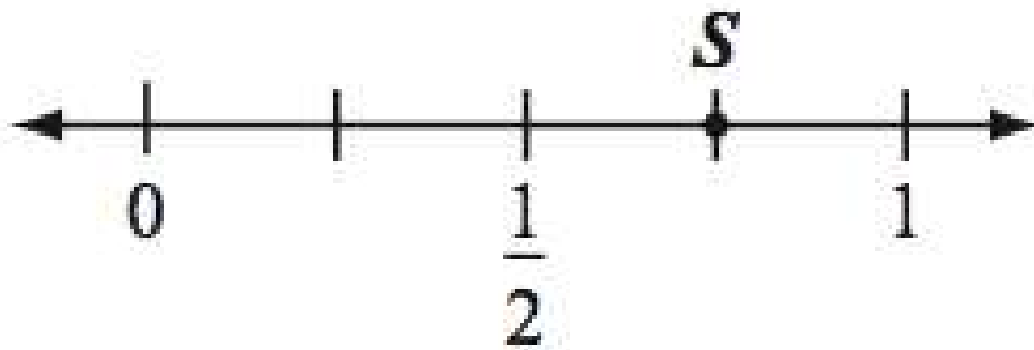
Anna's Shapes



Questions

Answers

How many sides do these shapes have?	4 sides
What is the name of 4 sided shapes?	Quadrilateral
How many corners are shown in all?	$4 + 4 + 4 = 12$ corners
Which shape has sides that are all the same length?	The square
Which shape has exactly two sides the same length?	The one on top. It's called a trapezoid because it has exactly 2 parallel sides.
Anna drew two new shapes. One had one less side than these shapes. The other had one more side. What shapes did she draw?	She drew a triangle (3 sides) and a pentagon (5 sides)



Questions

Answers

What is the picture showing?	A number line
How many parts is the number line divided into?	4 parts
What would each part be called if you used fractions?	Fourths $\frac{1}{4}$; $\frac{2}{4}$; $\frac{3}{4}$; $\frac{4}{4}$
What fraction could be used to describe where S is?	$\frac{3}{4}$ Three fourths
What is another name for $\frac{1}{2}$ on this number line?	$\frac{2}{4}$
If the line continued to the right, what fraction would be next?	1 and $\frac{1}{4}$
How far from 1 whole is the S?	$\frac{1}{4}$ away
If you were on the number line, exactly between the 0 and $\frac{1}{2}$, where would you be?	$\frac{1}{4}$

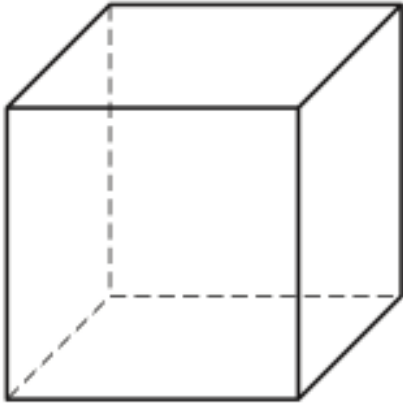
The clock below shows the time that Mr. Stone put a cake in the oven.



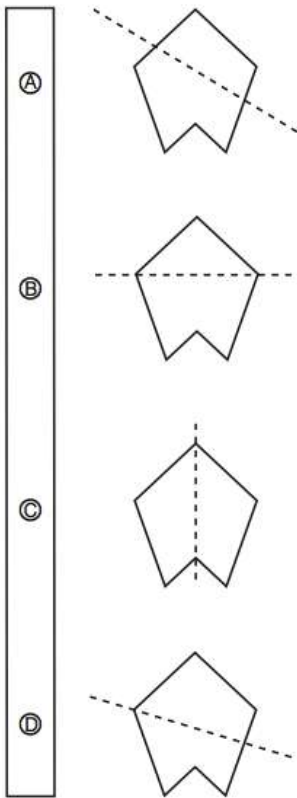
Questions

Answers

What is this problem about?	The time Mr. Stone put a cake in the oven.
Where is the short hand (the hour hand)?	It's just about on 6.
Where is the long hand?	It's on the 10.
Look at the hour hand. Is it a little before 6:00 or a little after 6:00?	A little before 6:00.
What time is it?	Ten minutes until six or 5:50
In ten minutes what time will it be?	6:00
If the cake cooks for 1 hour 30 minutes, what time will it be done?	5:50 + 1 hr = 6:50 6:50 + 10 min + 10 min + 10 min 7:20 is when cake is ready

**Questions****Answers**

What is the name of this shape?	A cube.
Where do you see it in real life?	A box, an ice cube, dice...
How many faces?	6 faces
How many edges?	12 edges
How many corners?	8 corners
What is a mistake students make when counting corners, edges or faces?	They forget the ones in the back, they forget the top and bottom
What would be a good counting strategy?	Number as you count Look for patterns (4 corners on bottom, 4 on top...)









Questions

Answers

What is this problem probably going to ask?	Which shows a line of symmetry.
What is a line of symmetry?	A line that divides a shape into two exact mirror images.
What could you do to see if something had a line of symmetry?	You could imagine folding it. It has to match up perfectly.
Which one is symmetric? Does it have vertical symmetry or horizontal symmetry?	Figure C. It has vertical symmetry.
Can a shape have two lines of symmetry? Give an example.	Yes. A square, rectangle, circle...
Is the letter A symmetric? What other letters have symmetry?	A is symmetric. B, C, D E, H, I, M, O T U V W X Y

Mandy is going to wrap a gift. The kinds of wrapping paper and bows she can choose are shown below.

Gift Wrap

Kinds of Wrapping Paper	Kinds of Bows
	
	
	
	

Questions

Answers

Who and what is the problem about?	Many and gift wrap.
What is this problem probably going to ask?	It's likely to be about combinations.
If many chooses one wrapping paper and one bow, how would you find all the different combinations?	Make an organized list Draw lines from each Look for patterns Show your work
How many combinations are there?	2 for each kind of wrapping paper $2 + 2 + 2 + 2 = 8$ combinations

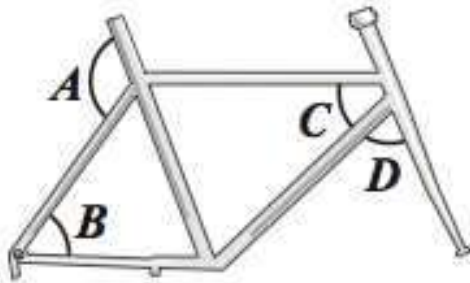
1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Questions

Answers

What is this picture showing? What multiples are shaded?	This is a hundreds chart. It shows the multiples of 9.
What are two patterns you see with the shaded numbers?	It goes diagonally. Except the first one, of the multiples have 2 digits. The digits add up to 9.
If you put your fingers on 56 and moved down two rows, what number would you be on?	76
If you were on 78 and went down 2 and right 1, where would you be?	99
I went down 2 rows and right 2 columns. I landed on 36. Where did I start?	Go backwards. Up two 16 and left 2, 14 I started on 14. Check it! 14 down 2 right 2 = 36!

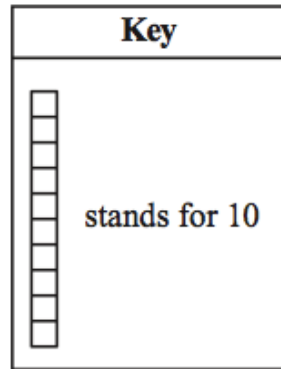
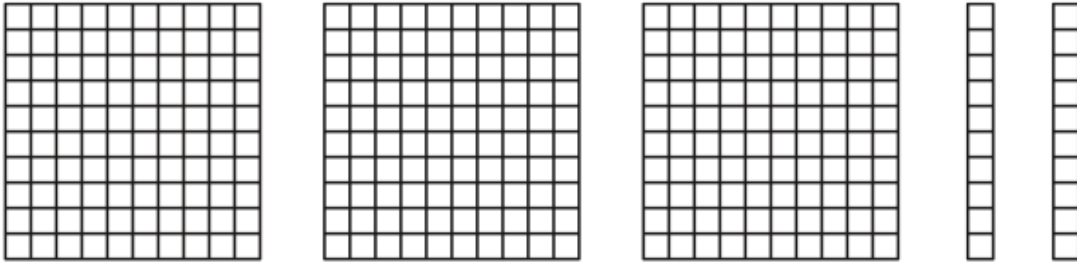
Some angles are marked on the bicycle frame shown below.



Questions

Answers

What is shown in this picture?	Angles on a bicycle frame.
Which angle is obtuse? How do you know?	Angle A. Its wider than 90°.
Which angles are acute?	Angles D, C, B
How many triangles can you see?	2 triangles
Which angles appears to be the narrowest?	Angle C
Which two angles seem to be congruent?	Angle B and Angle D Also the other angles in B's triangle (not labeled) all seem to be the same.

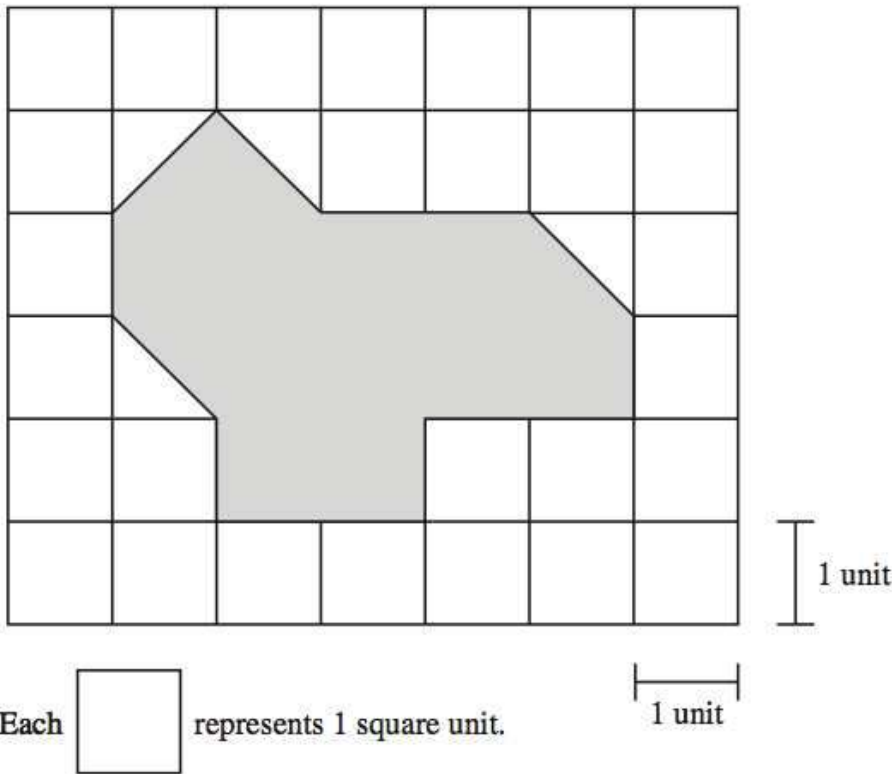


Questions

Answers

What is shown here?	Base ten blocks. 100's and 10's
What does the key show?	One rod stands for 10
What number is shown with the flats and the rods?	320
How many hundreds are there?	3 hundreds
How many tens?	2 tens
If you broke the flat 100's into tens, how many tens would there be in all?	$10 + 10 + 2 = 22$ tens
How many tens would you need to make 400?	8 more tens (80)
How many 100's and 10's would you need to add to sum to 1000?	8 tens (makes a hundred) then 6 hundreds would make 1000 6 hundred and 8 tens = 680

10 The picture below shows the shaded figure that Diego drew on a piece of grid paper.



Perimeter is the distance around a shape.

Questions	Answers
Who and what is this problem about?	Diego and his drawing on grid paper.
What does the box represent?	1 square unit
What does perimeter mean?	The distance around a shape
What does area mean?	The squares inside a shape
How would you find the area of this shape?	Draw lines on the shape, then count the squares. Put the halves together to make wholes.
This shape has an area of 12 square units. Can you think of a rectangle with this same area? What are the dimensions (length and width?)	Yes, a 3 by 4 rectangle 2 by 6 rectangle 1 by 12 rectangle