F	WARM-UP Find the sum using the most convenient method.
F	Find the sum using the most convenient method.
	5 + 15 + 25 + 35 + 45 + 55 + 65 + 75 + 85 + 95 =
F	Find pairs that add to 50.
_	
_	
_	
C	Continue pattern – add 3 more rectangles.
	Write down ALL two-, and three-digit numbers that can be written using the digits 5 and 0.
Т	Swo-digit:
T	Three-digit:

Lesson 6

Angles, 2-D shapes, Multiplication

REVIEW I

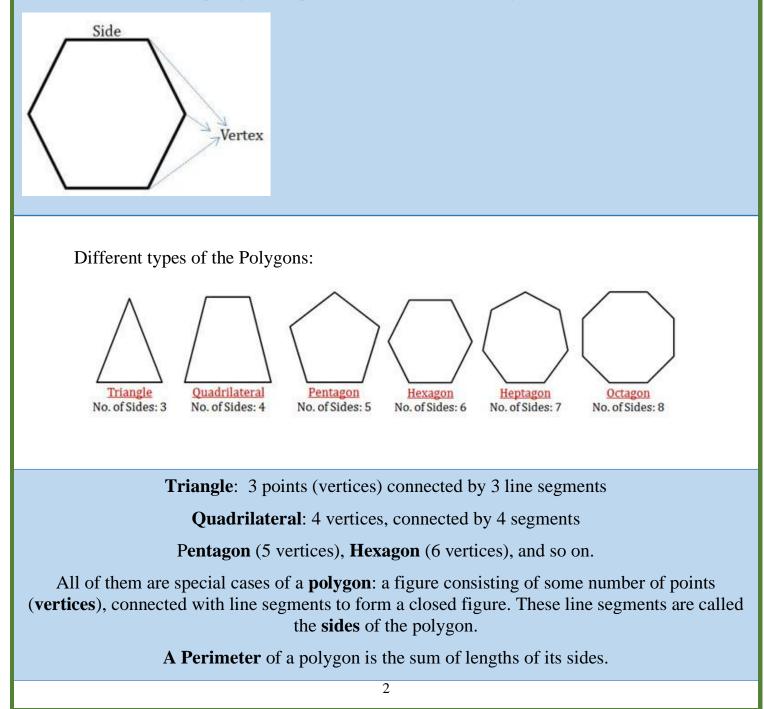
In geometry, a **polygonal chain** is a connected series of line segments.

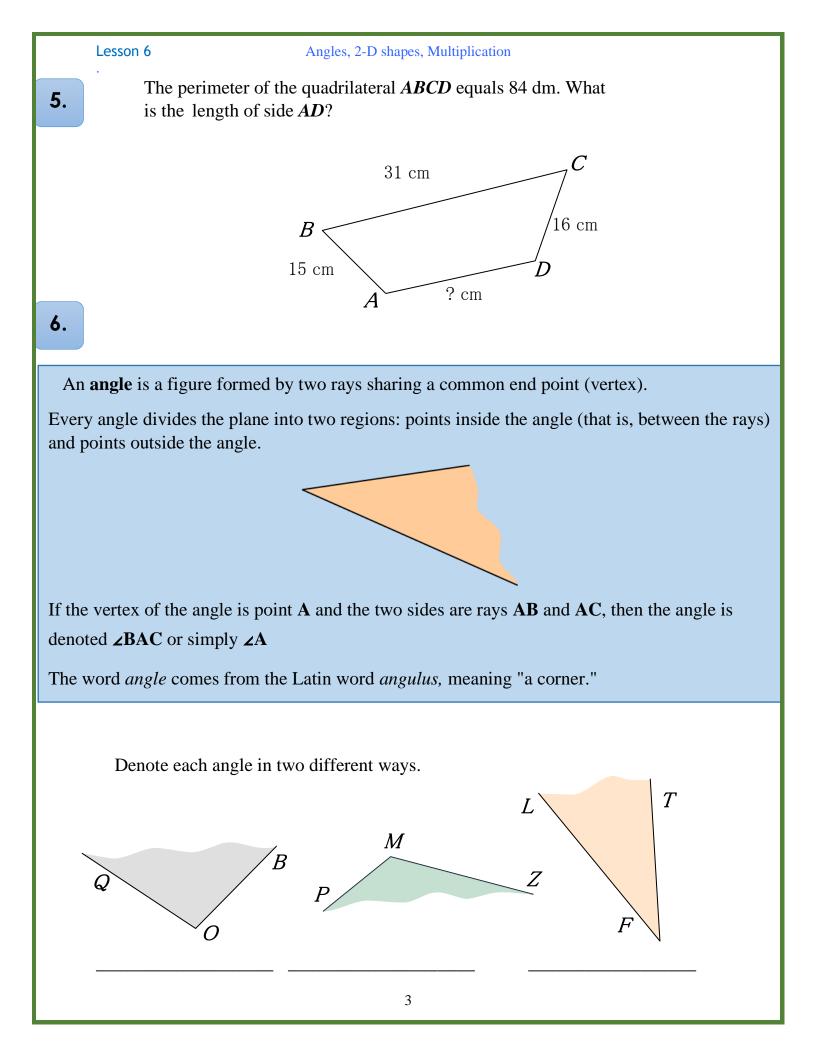
Polygonal chain can be "open" or "closed".

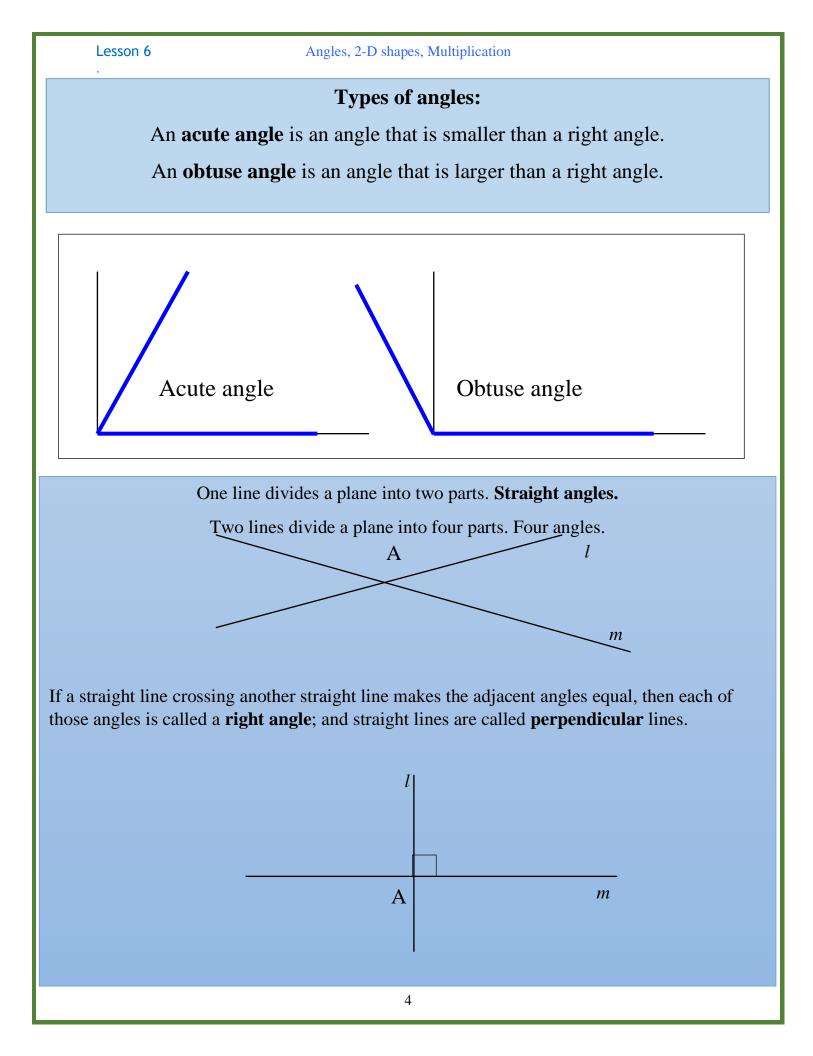
If three or more line segments form a closed loop it is called **Polygon.**

- The line segments forming the polygon are called sides.
- The point of junction of two line segments is called a vertex.

Number of vertices of a polygon is equal to the number of line segments or sides.



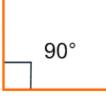




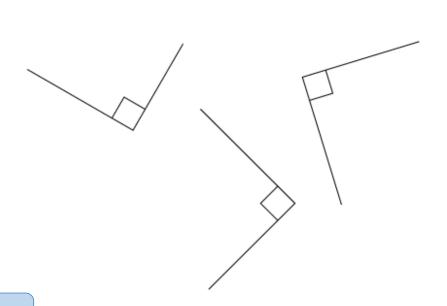
Lesson 6

7. Making a Right Angle Template.

Fold a sheet of paper in half and then in half again. Using a ruler trace the creases with a pencil. How many straight lines did you get? How many angles do these lines form?



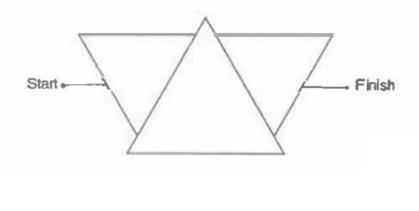
Note the special symbol in the angle. If we see this box, it is a right angle. The 90° is rarely written in.

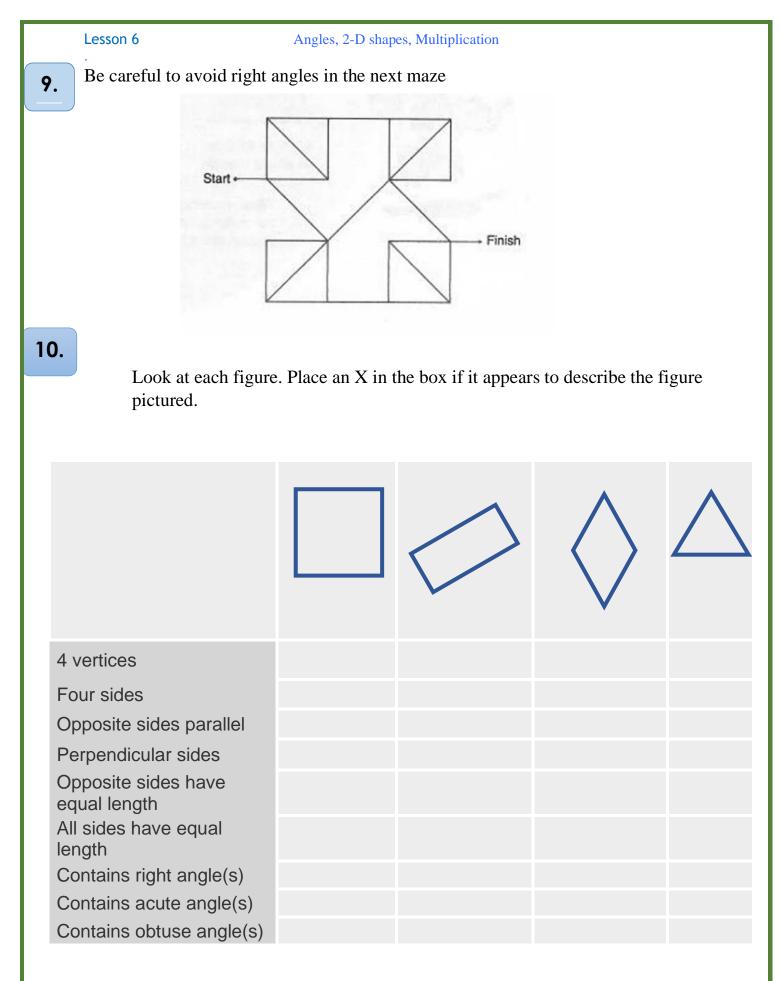


All the angles below are right angles. Use your right angle template to check it.

8.

Complete each angle maze below by tracing a path from start to finish that has only acute angles.







Angles, 2-D shapes, Multiplication

REVIEW II

Multiplication is a way to solve problems with equal groups: There are 4 groups of stars, 3 stars in each group. $4 \times 3 = 12$ stars altogether.

Multiplication is NOT only a "shortcut" for repetitive addition.

We use multiplication to solve a variety of different problems. For example:

1. The blue rod is 3 times as long as red rod.

2. The truck is twice as heavy as a car

11. The table shows products of the numbers 0 through 10. Let's find patterns there.

factors												
factors ->	×	0	1	2	3	4	5	6	7	8	9	10
lactors -	\sim	0	'	2	3	4	5	0	'	0	a	10
	0	0	0	0	0	0	0	0	0	0	0	0
	1	0	1	2	3	4	5	6	7	8	9	10
	2	0	2	4	6	8	10	12	14	16	18	20
	3	0	3	6	9	12	15	18	21	24	27	30
	4	0	4	8	12	16	20	24	28	32	36	40
	5	0	5	10	15	20	25	30	35	40	45	50
	6	0	6	12	18	24	30	36	42	48	54	60
	7	0	7	14	21	28	35	42	49	56	63	70
	8	0	8	16	24	32	40	48	56	64	72	80
	9	0	9	18	27	36	45	54	63	72	81	90
	10	0	10	20	30	40	50	60	70	80	90	100

a) _____

b)_____

c)__

12.

Angles, 2-D shapes, Multiplication

Challenge yourself

a) One penny out of three is fake. It is lighter than the others. How can you identify the fake coin by using a balance scale like the one shown in the picture? You can only weigh once!



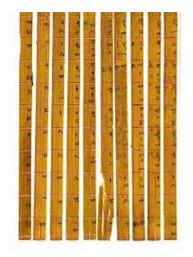
b) How can you find one fake penny out of 9 pennies if you can only weigh twice?

Did you know ...

In mathematics, a **multiplication table** (sometimes, less formally, a **times table**) is a table used to define results of multiplication operations.

The decimal multiplication table was traditionally taught as an essential part of elementary arithmetic around the world, as it lays the foundation for arithmetic operations with base-ten numbers.

Many educators believe it is necessary to memorize the table up to 9×9 .



The oldest known multiplication tables were used by the Babylonians about 4000 years ago. However, they used a base of 60. The oldest known tables using a base of 10 are the Chinese decimal multiplication table on bamboo strips dating to about 305 BC, during China's Warring States period.

The multiplication table is sometimes attributed to the ancient Greek mathematician Pythagoras (570-495 BC). It is also called the Table of Pythagoras in many languages (for example French, Italian and at one point

even Russian), sometimes in English.