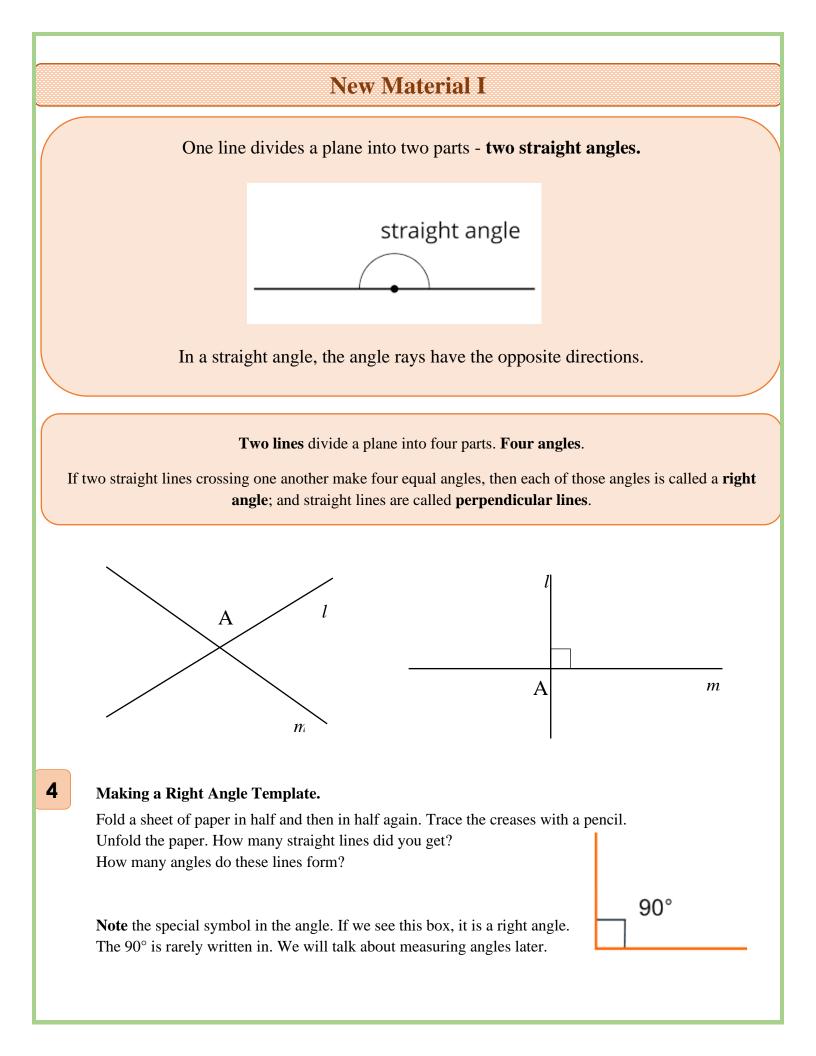
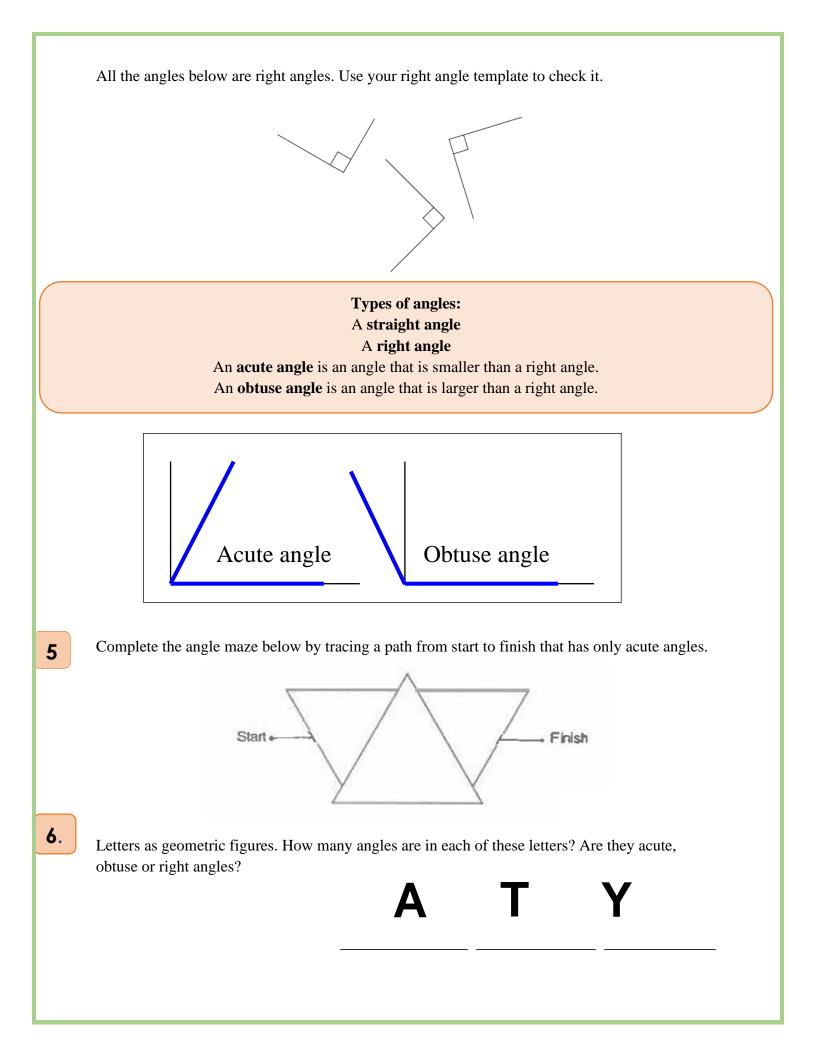
School Math 3 Classwork 8								
			Warm-	Up				
1	Arrange the fo (75 -19)	ollowing expression (65 - 49)	-	der (without calcu (75 - 29)	ulating their values): (65 - 39)			
2	Write expression for each problem and find the values where possible: a) Nick runs 2 miles every weekday and 5 miles on each weekend day. How many miles does Nick run in one week?							
	<ul> <li>b) Bananas come in 7kg boxes and apples come in 5kg boxes.</li> <li>How many bananas will be in <i>x</i> boxes?</li> <li>How many apples will be in <i>y</i> boxes?</li> </ul>							
3	Write the extended answers: ( <i>Example:</i> $2l \times 5 = 10$ <i>liters</i> )							
	$1 \text{kg} \times 4 = \_$ $1 \text{ egg} \times 4 = \_$			7 = =				
			Homework	Review				
	1. Compare, u	sing <, > or =:						
	245 – a b – 207		m – 73 m 210 + n n		$\begin{array}{c} c + d \_\_\_ d + c \\ 40 - k \_\_\_ 140 - k \end{array}$			
	2. Collect the like terms to simplify: 12 + 6 - b - a + 32 + 2a + 2b - a - b = 25 + a + 5a - 10 = 3 + 237 - a + 4 - a + 7a =							





Lesson 8

**Types of angles. Multiplication table.** 

## REVIEW

Simplify expressions (cancel equal numbers with the opposite signs) and calculate:

a) 534 - 21 + 642 - 37 + 21 + 1 - 534 + 37 - 642 =\_\_\_\_\_

b) 842 - 621 + 318 - 1 + 7 + 621 - 842 - 318 =\_\_\_\_\_

c) 1257 - x - 219 + 328 - 1 + 9 + x - 1257 + 219 - 328 =

Calculate (write in the vertical form):

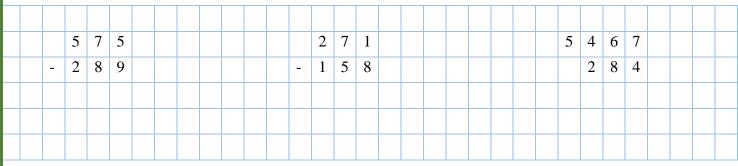
7

8

a) 575 – 289 =

b) 271 – 158

c) 5,467 + 284 =



Multiplication Table

Like everyone in the world - you'll have to memorize it!

MULTIPLICATION TABLE										
	1	2	3	4	5	6	7	8	9	10
1	1	2	3	4	5	6	7	8	9	10
2	2	4	6	8	10	12	14	16	18	20
3	3	6	9	12	15	18	21	24	27	30
-4	4	8	12	16	20	24	28	32	36	40
5	-5	10	15	20	25	30	35	40	45	50
6	6	12	18	24	30	36	42	48	54	60
7	7	14	21	28	35	42	49	56	63	70
8	8	16	24	32	40	48	56	64	72	80
9	9	18	27	36	45	54	63	72	81	90
10	10	20	30	40	50	60	70	80	90	100

## MULTIPLICATION TABLE

	Lesson 8 Types of angles. Multiplic	cation table.					
9	Perform the following actions and write their results: $1 \times 2 = $ $1 \times 3 = $ $1 \times 6 = $	<b>Conclusion</b> : 1 × <i>a</i> =					
10	Perform the following actions and write their results: $0 \times 2 = $ $0 \times 3 = $ $0 \times 6 = $	<b>Conclusion</b> : 0 × <i>a</i> =					
	The <b>Commutative property</b> of multiplication (or addition) says that when two numbers are multiplied (or added) together, the product is the same regardless of the order of factors. When we <b>add</b> : <b>a</b> + <b>b</b> = <b>b</b> + <b>a</b>						
	+ - = 6 + 3	<b>3</b> + <b>6</b>					
	When we <b>multiply</b> : $\mathbf{a} \times \mathbf{b}$						
11	a) Use the commutative property of multiplication to eva <i>Example:</i> $3 \times 1 = 1 \times 3 = 3$ $5 \times 1 = 1 \times 5 = $ $7 \times 1 = \times = $ $9 \times 1 = \times = $	aluate the expressions: <b>Conclusion</b> : $a \times 1 =$					
	b) Use the commutative property of multiplication to evaluate $3 \times 0 = 0 \times 3 = $ $5 \times 0 = 0 \times 5 = $ $7 \times 0 = $ $\times $ =	aluate the expressions: <b>Conclusion</b> : $a \times 0 =$					
12.	-	$\begin{array}{c} \times \mathbf{r} = 0 \qquad \mathbf{q} \times 17 = 0 \\ \underline{\qquad} \qquad \mathbf{q} = \underline{\qquad} \end{array}$					

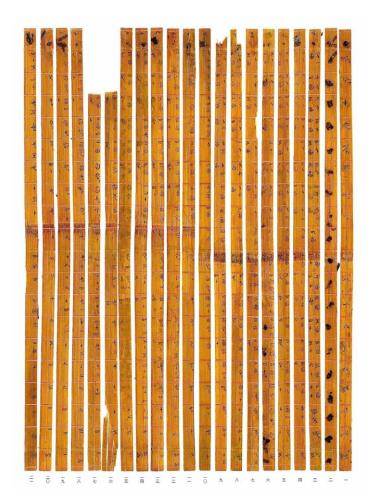
## Did you Know ...?

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

The multiplication table is traditionally taught in elementary schools 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  $9 \times 9$ .

Babylonians invented multiplication about 4000 years ago. They did their mathematics on clay tablets, some of which have survived until today. As their civilization grew, they needed to do more and more sophisticated mathematics to help them build and trade. In order to speed up calculations, merchants would carry around tablets with these multiplication tables, much as modern-day engineers might carry calculators in their pockets.



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.

In 2010, Tsinghua University in Beijing received a donation of nearly 2,500 bamboo strips. Muddy, smelly and teeming with mold, the strips probably originated from the illegal excavation of a tomb, and the donor had purchased them at a Hong Kong market. These strips were 4,300 years old.

Out of total 76 strips found, "21 bamboo strips stand out from the rest as they contain only numbers, written in the style of ancient Chinese", says Feng Lisheng, a historian of mathematics at Tsinghua. Those 21 strips turned out to be a multiplication table!