School Math 3 Classwork 13					
Warm-Up					
1	Calculate.				
•	400 - 100 × 2 =	$350 - 50 \times 4 =$	$10 \times 8 + 250 =$		
	$25 \times 2 + 25 \times 4 =$	$60 - 20 \times 2 =$	240 - 30 × 8 =		
	$35 \times 2 + 40 \times 6 =$	$190 - 15 \times 6 =$	$200 - 25 \times 6 =$		
2	Compare expressions (<, 2	>, =):			
		$ \begin{array}{ccc} 6+14) & 73-17 \\ 3-19) & 84+31 \end{array} $			
3	Find any <b>four</b> pairs of numbers, such that their product is: a) 60				
	b) 120				
	c) 100				
	d) 84				
4.	Calculate:				
		+ 1 dm 7 cm =			
	3m 6dm – 2m 8dm + 14dı	m + 5m =			

# **New Material I**

# Multiplying by Bigger Numbers: "One – Digit – One – Line" methodWhen multiplying by two-digit number, we do two "One – Digit – One – Line"<br/>multiplications.<br/>We can also use a "partial products" method.Example: 179 × 64 $\frac{4}{3} \frac{5}{3}$ <br/>179<br/>× 64Here is the answer using the partial productsA det colspan="2">A det colspan="2" Colspan="2" A det colspan="2" A d

<u>+10,740</u> 11,456

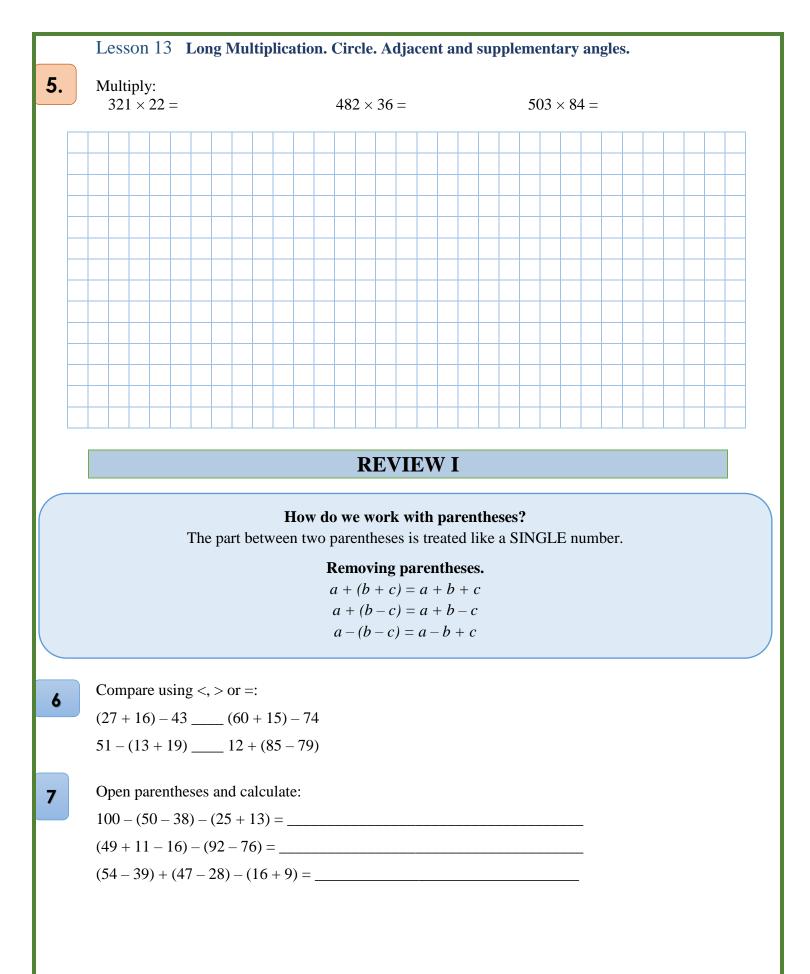
Here is a rectangle with side lengths 100 + 70 + 9 and 60 + 4 that shows all of the partial products as the area of part of the rectangle:

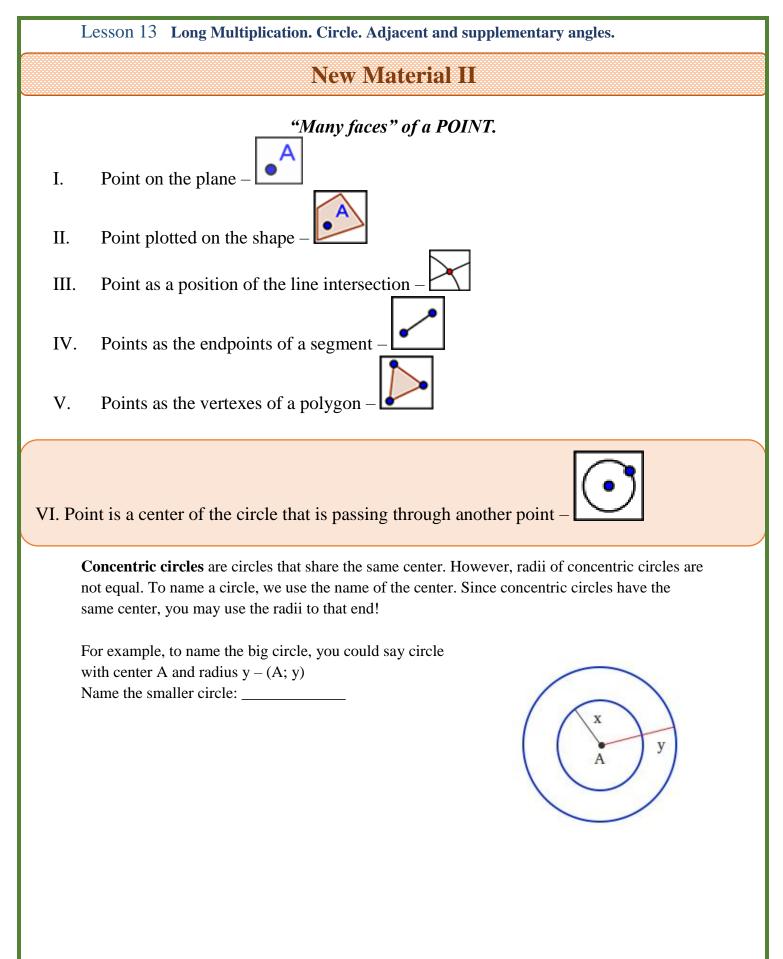
	<u>x 64</u>
9×4=	36
70 × 4 =	280
100 × 4 =	400
9 × 60 =	540
70 × 60 =	4200
100 × 60 =	+6000
	11,456

70

(	60 x 100 =	60 x 70=	60 x 9 =
	6,000	4,200	540
1	4 x 100=	4 x 70=	4 x 9 =
	400	280	36

	11,456
+	36
	280
	400
	540
	1/200





a) Use a compass to draw a circle centered at a given point **A** and passing through another point **B** (choose your own compass opening).

b) Use a straightedge and connect the point  $\mathbf{B}$  on the circle to the center  $\mathbf{A}$  to make a radius  $\mathbf{r}$ .

c) Mark another point C at any place between points A and B. Using a compass draw a circle with a radius  $\overline{AC}$ .

d) Mark one more point **D** at any place between points **A** and **C**. Using a compass draw a circle with a radius  $\overline{AD}$ .

• A

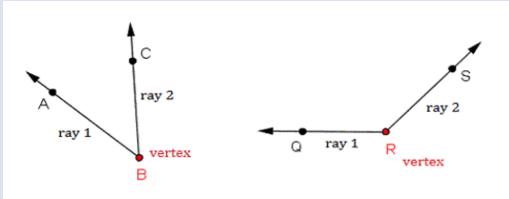
9.

8.

Practice to draw concentric circles. Place a center A in the middle of the page. Using a compass, draw 3 circles – with a radius 8 cm, 5 cm and 3 cm. Name each circle.

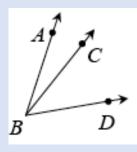
# **REVIEW II**

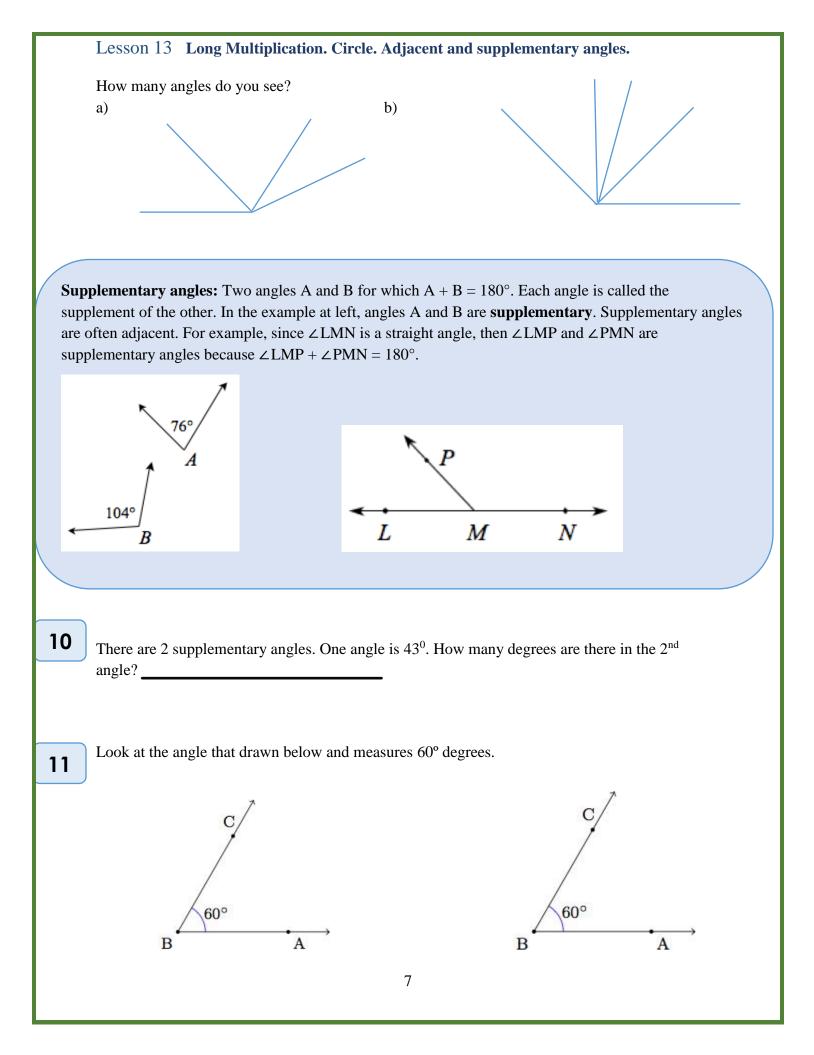
An angle is formed when two rays meet at a common endpoint. The rays are called the *sides* of the angle and their common point is called the *vertex* of the angle.



On the pictures above first angle is called the angle B and is denoted as ∠B or ∠ABC or ∠CBA (the vertex is always in the middle). The angle ∠ABC is an acute angle.
The second angle is called the angle R and is denoted as ∠R, ∠QRC or ∠CRQ. This is an obtuse angle.

Adjacent angles: Two angles are Adjacent when they have a common side and a common vertex (corner point) and don't overlap. In the example at right,  $\angle ABC$  and  $\angle CBD$  are adjacent angles.





a) Draw another angle that measures 25 degrees. It should have the same vertex and share side  $\overrightarrow{BC}$ . How many angles are there in the figure you drew? What are their measures?

b) On the copy of your 60-degree angle draw a different angle that measures 45 degrees and has the same vertex and also shares side  $\overrightarrow{BC}$ . How many angles are there in the figure you drew? What are their measures?