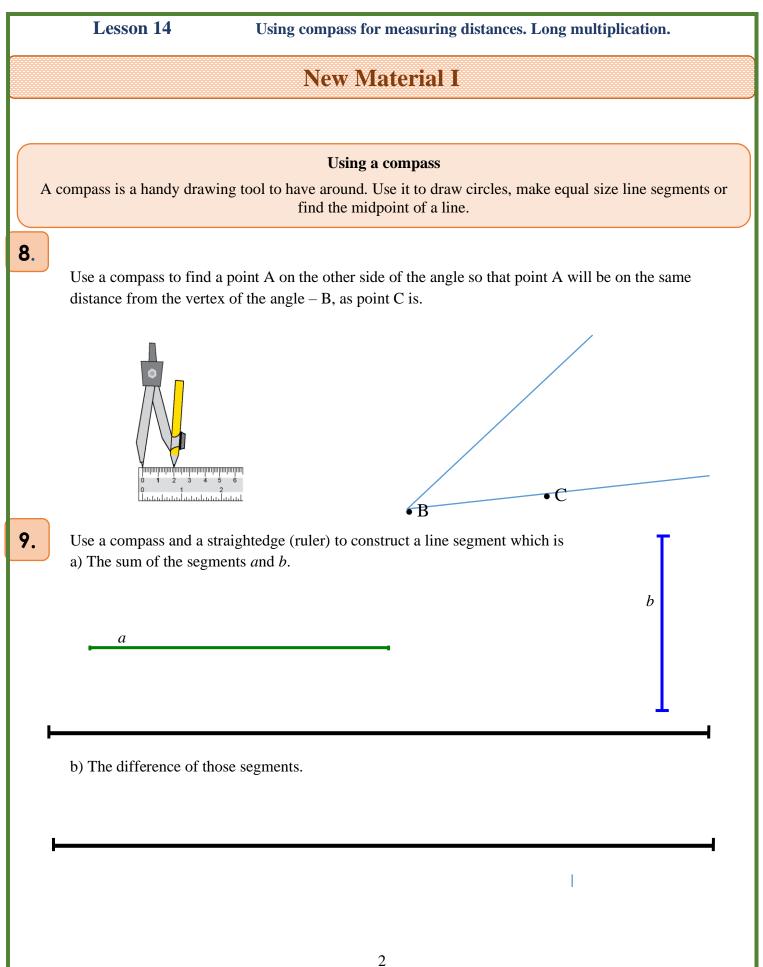
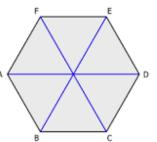
School Math 3 Classwork 14			
Warm-Up			
1	Write the missing numbers $12 \times __= _ \times 10$ $__ \times 8 = _ \times 12$ $__ \times 8 = _ \times 10$	to make the equations correct: $__ \times 15=$ $__ \times 6=$ $__ \times 2=$	× 3
2	Solve equations and check your answer:		
3	Compare expressions (<, >, $7 \times 5 \dots 6 \times 8$ $3 \times 9 \dots 5 \times 5$ $5 \times 9 \dots 5 \times 5 +$ $3 \times 9 \dots 4 \times 7 +$ Answer the questions (men	$12 + 12 + 12 4 \times 6 3 \times 10 \times 3 5 \times 15 + 15 + 15 .$	
	 b) How many fours should be subtracted from 24 so the result is 0? c) Six tens are subtracted from the number and the result is 2. What is the number? d) Eight threes are subtracted from the number and the result is 1. What is the number? 		
5	Evaluate an expression $9 \times a = 9$		a = 20
6	Simplify each expression be		
	a + 11 + 14 =	18 + b + 20 =	c + 12 + c =
	p + 10 - 50 =	18 + l - l =	m+m + k + k =



Lesson 14

10

Let's learn how to build a symmetrical hexagon using a compass and a straight edge only!



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) Place your compass with the same radius setting at the point B and make a mark on a circle on either side of point B. Mark this point with a letter C

c) Place your compass with the same radius setting at the point C and make a mark on a circle going in the same direction as you did in stepb). Mark this point with a letter D.

- d) Repeat step c) three more times or until you will come back to a point **B**.
- e) Take a straight edge and connect each point with two neighboring points.
- f) Using a straight edge connect each point with a center of your initial circle point A.



Questions: 1. If we set the distance between point A (center of the circle) and point B to be 1 unit, what is the distance AC? _____AD? _____.

2. What can you tell about the 6 angles, between segments connecting center of the circle A with points B, C, D, E, F, G – \angle BAC, \angle CAD, \angle DAE, \angle EAF, \angle FAG and \angle GAB?

3. Can you tell the measure of each angle in degrees, if we know that the full angle is 360°?

Lesson 14

Using compass for measuring distances. Long multiplication.

179

New Material II

Multiplying Bigger Numbers:

When multiplying by two-digit number, We can use a "partial products" method.

CALCULATE: 179 x 64

Here is the answer using the partial products algorithm:

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

