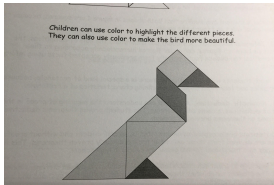
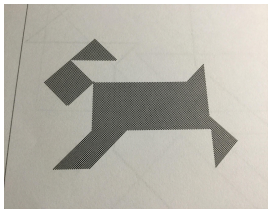
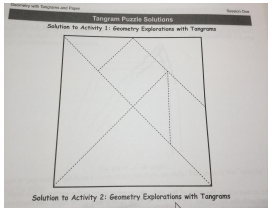
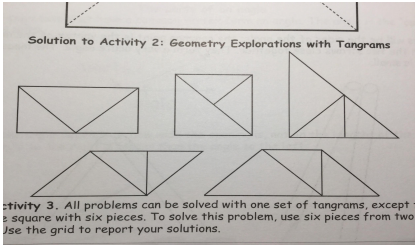
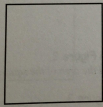
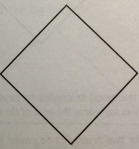


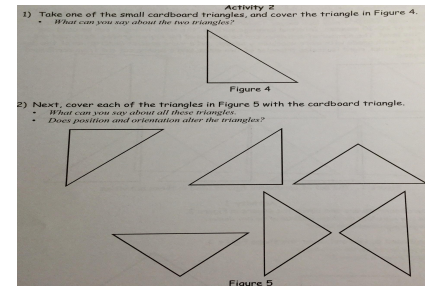
THINKING ABOUT GEOMETRY ANSWER KEY

-----DRAFT-----

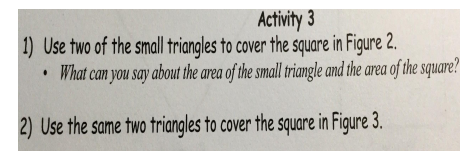
PLEASE LEAVE COMMENTS TO ADD OR MAKE CORRECTIONS

<u>Section:</u>	<u>Name:</u>	<u>Page #:</u>	<u>Answer:</u>
1	Tangram puzzles	3	
1	Tangram puzzles (continued)	4	
1	Geometry Explorations with Tangrams (Act.1)	4	
1	Geometry Explorations with Tangrams (Act.2)	4	
1	Geometry Explorations with Tangrams (Act.3)	4-5	3. All problems can be solved with one set of tangrams, except for forming the square with six pieces. To solve this problem, participants can use six pieces from two sets of tangrams.
1	Hands-on Geometry in the Early Grades (Act.1)	6	Activity 1 1) Take the cardboard square and cover the square in Figure 2. • What can you say about the shape and size of the two shapes? • What can you say about their areas? 2) Use the cardboard square and cover the shape Figure 3. • What can you say about the two shapes? • What kind of shape is Figure 3?  

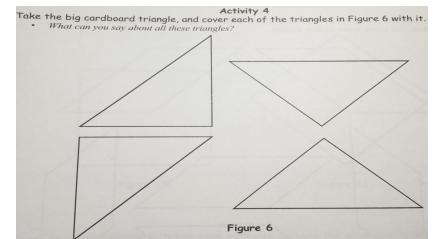
1 Hands-on Geometry in the Early Grades (Act.2) 6-7



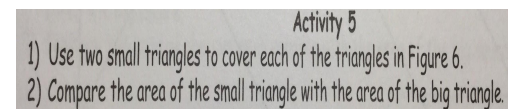
1 Hands-on Geometry in the Early Grades (Act.3) 7



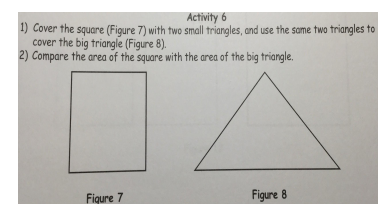
1 Hands-on Geometry in the Early Grades (Act.4) 7



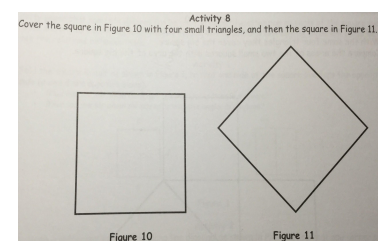
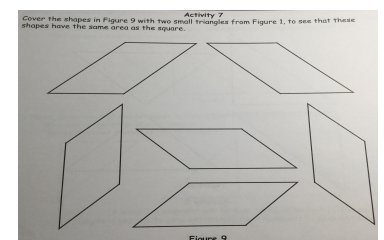
1 Hands-on Geometry in the Early Grades (Act.5) 7-8



1 Hands-on Geometry in the Early Grades (Act.6) 8



1 Hands-on Geometry in the Early Grades (Act.7) 8



1 Hands-on Geometry in the Early Grades (Act.8) 9

1 Hands-on Geometry in the Early Grades (Act.9) 10

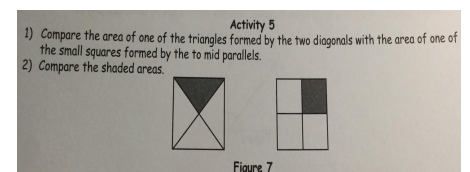
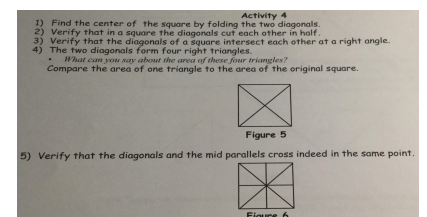
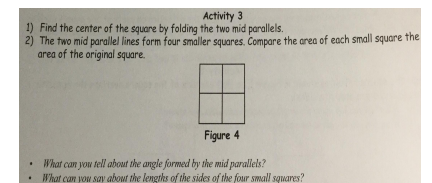
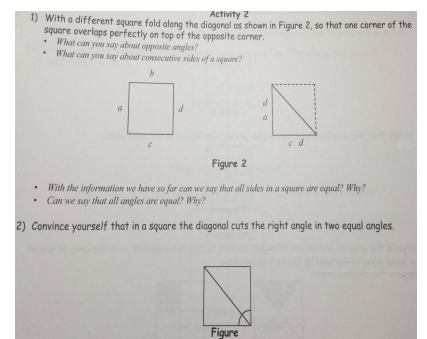
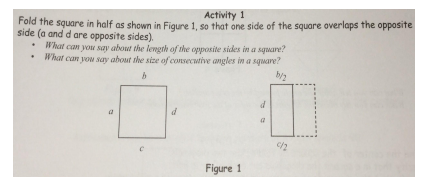
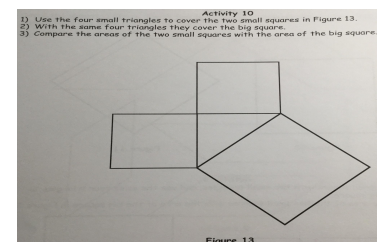
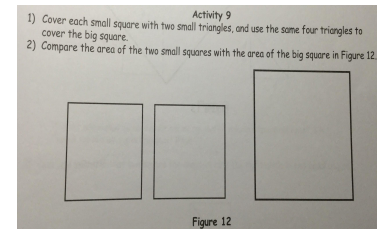
1 Hands-on Geometry in the Early Grades (Act.10) 10

1 Verifying Properties of Squares (Act.1) 12

1 Verifying Properties of Squares (Act.2) 13

1 Verifying Properties of Squares (Act.3) 13

1 Verifying Properties of Squares (Act.4) 14

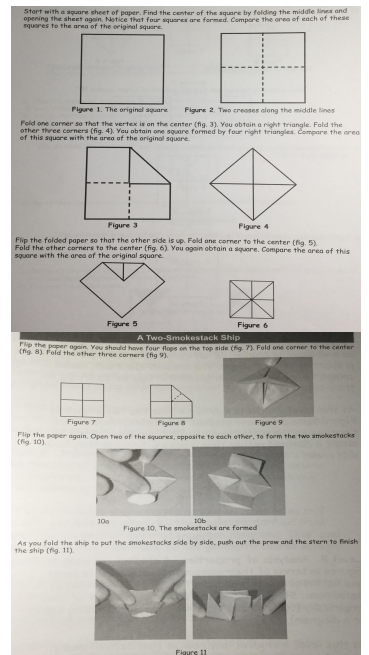
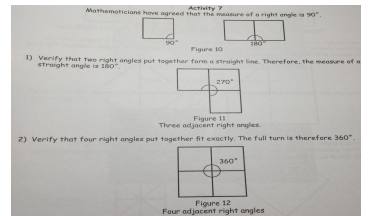
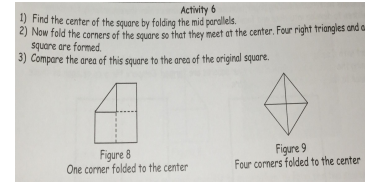


1 Verifying Properties of Squares (Act.5) 14

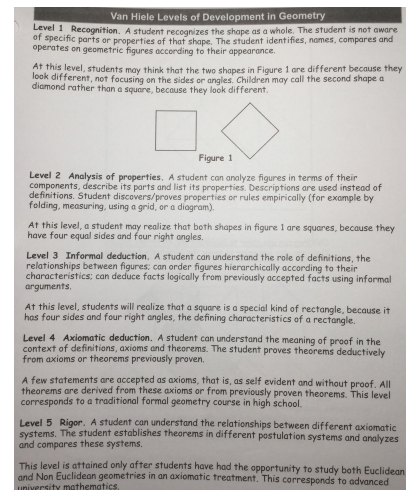
1 Verifying Properties of Squares (Act.6) 14

1 Verifying Properties of Squares (Act.7) 14

1 A Two-Smokestack Ship 15



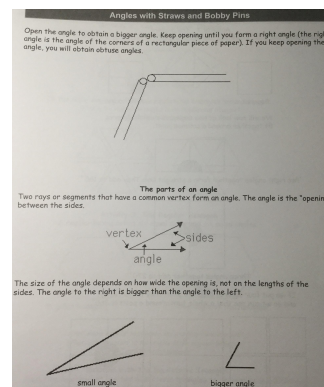
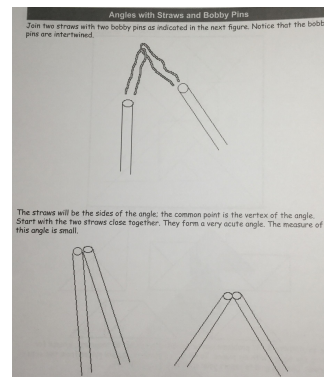
1 Van Hiele Levels 17-18



2

Angles with Straws and Bobby Pins

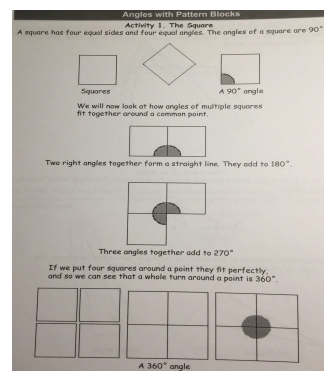
20-21



2

Angles with Pattern Blocks (Act.1)

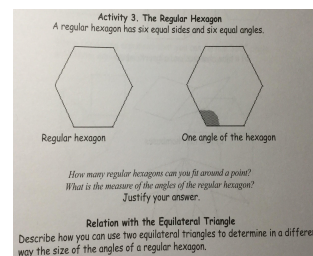
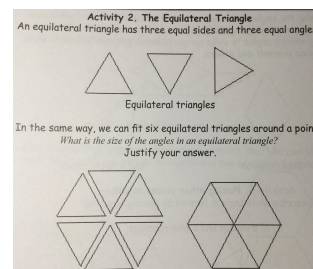
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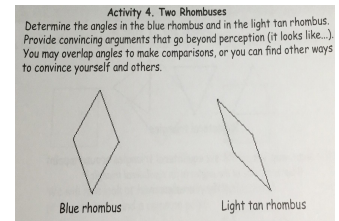
Angles with Pattern Blocks (Act.2)

22

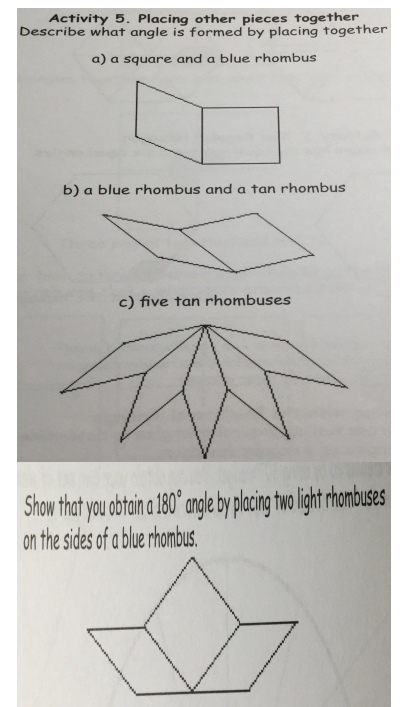


2 Angles with Pattern Blocks (Act.3) 22

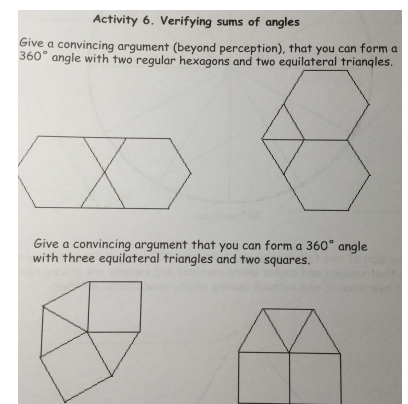
2 Angles with Pattern Blocks (Act.4) 22-23



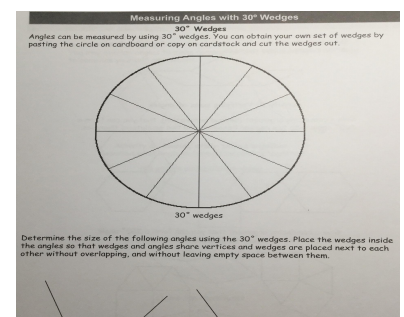
2 Angles with Pattern Blocks (Act.5) 23



2 Angles with Pattern Blocks (Act.6) 23

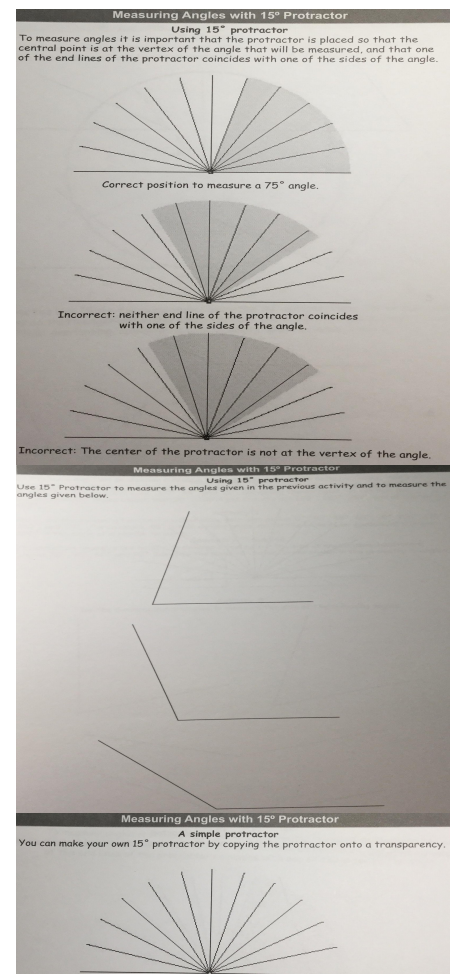
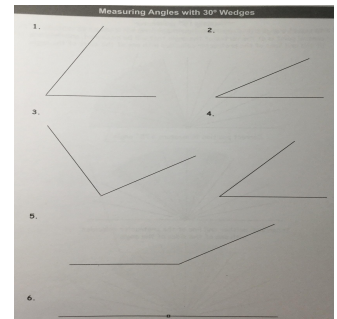


2 Measure Angles with 30 (degree) Wedges 23-24



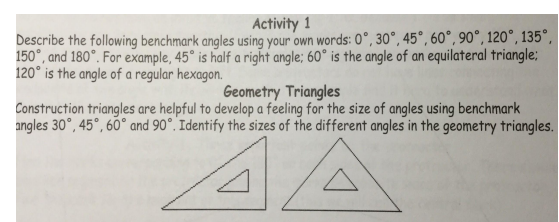
2 Measure Angles with a 15 (degree) Protractor

24



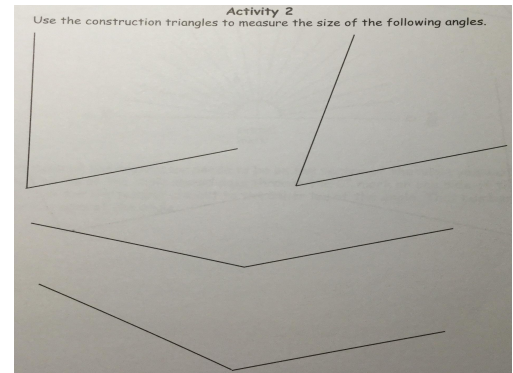
2 Benchmarks for Angles (Act.1)

25



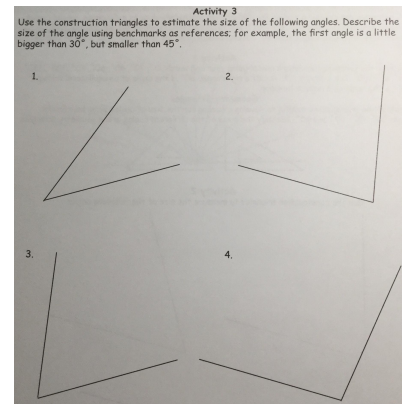
2 Benchmarks for Angles (Act.2)

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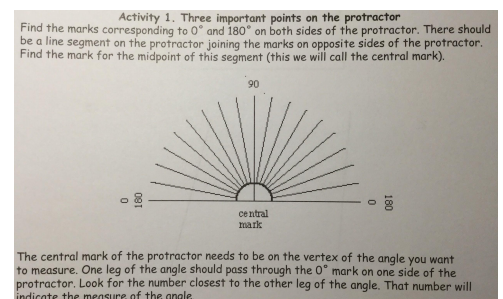
2 Benchmarks for Angles (Act.3)

25



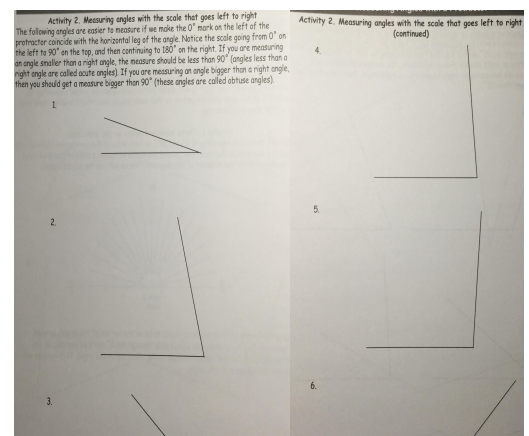
2 Measuring Angles with a Protractor (Act.1)

26



2 Measuring Angles with a Protractor (Act.2)

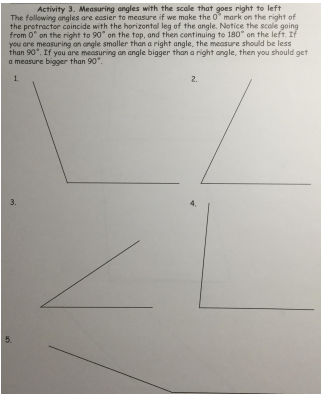
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2

Measuring Angles with a Protractor (Act.3)

26



2

Measuring Angles with a Protractor (Act.4)

26

