

Mathematics Grade 6 Unit 06: Geometry: Angles, Triangles, and
Quadrilaterals 2012-2013



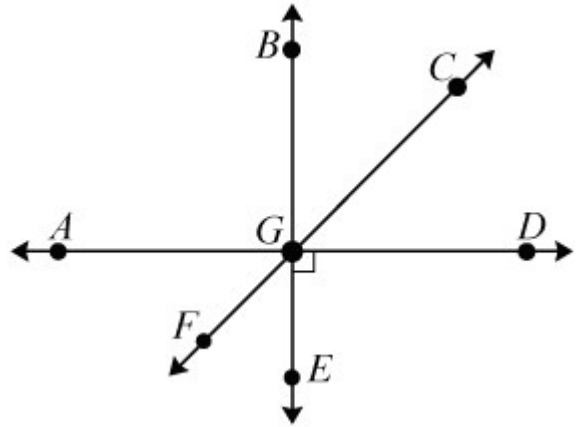
1 Eric wants to make a border design for a poster, using acute angles. Which of the following angle measurements represents an acute angle?

- A 180°
- B 130°
- C 90°
- D 65°

2 Tony drew a triangle with a right angle. Which of the following could NOT be one of the two other angles in his triangle?

- F 90°
- G 60°
- H 45°
- J 30°

3 Which of these is a right angle?



- A $\angle AGB$
- B $\angle AGC$
- C $\angle BGC$
- D $\angle BGE$

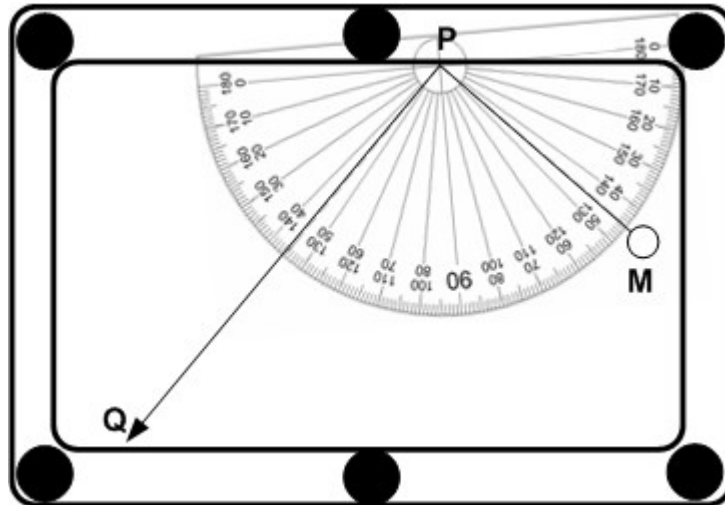
4 The table shows the measures of three of the angles in a quadrilateral.

Angle	Measure
A	
B	108°
C	54°
D	62°

What is the measure of angle A?

- F 56°
- G 136°
- H 236°
- J 360°

5 Jan plans to make a shot playing pool. The path of her shot is shown below.

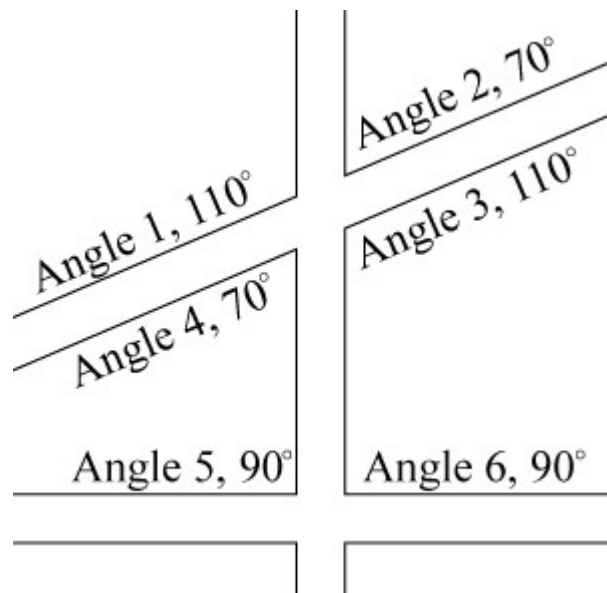


What is the measure of the angle MPQ she creates with her shot?

- 6 A certain quadrilateral has angle measures of 95 degrees, 65 degrees, and 130 degrees. What is the measure of the fourth angle of this quadrilateral? Show your work and justify your answer.

				.		
0	0	0	0		0	0
1	1	1	1		1	1
2	2	2	2		2	2
3	3	3	3		3	3
4	4	4	4		4	4
5	5	5	5		5	5
6	6	6	6		6	6
7	7	7	7		7	7
8	8	8	8		8	8
9	9	9	9		9	9

- 7 Three roads intersect, forming the angles shown below.



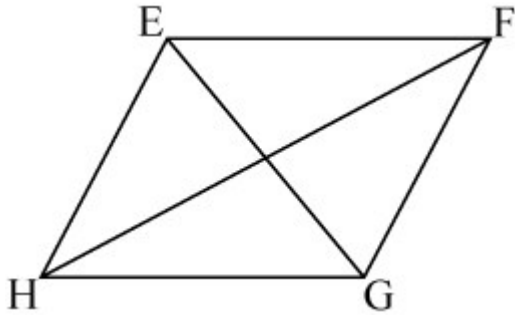
Which of the following contains the obtuse angles from the drawing above?

- A Angles 1 and 2
- B Angles 5 and 6
- C Angles 1 and 3
- D Angles 2 and 4

- 8 The minute hand and hour hand of an analog clock can form angles of different measures. At what time would the minute hand and hour hand form a straight angle?

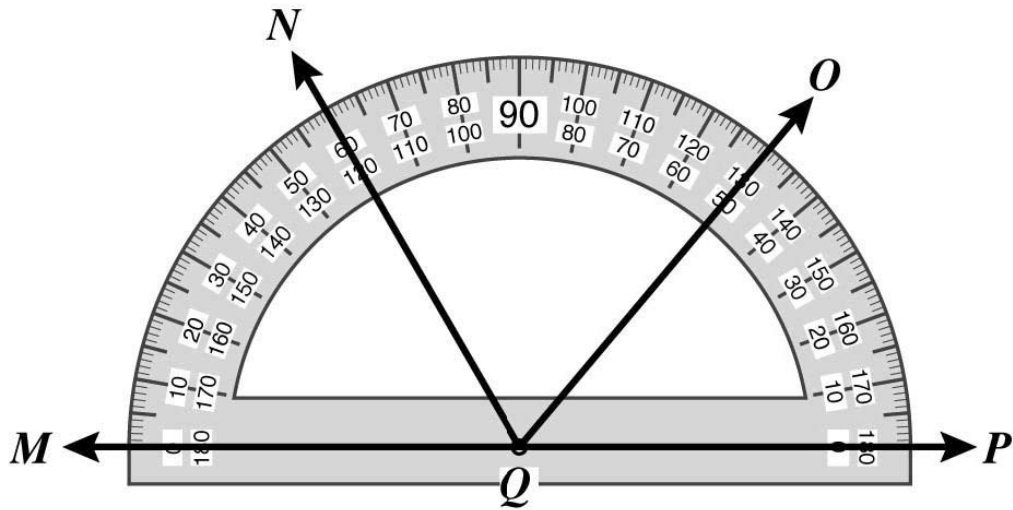
- F noon
- G 3:00
- H 6:00
- J 9:30

- 9 Quadrilateral EFGH is a parallelogram. Angle EFG = 60° and angle HEF = 120° . What is the angle measure of angle FGH?



- A 120°
- B 180°
- C 360°
- D 60°

10 What is the measure of angle NQO to the nearest degree?



- F 130°
- G 45°
- H 70°
- J 50°

Test Key

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##	Item #	Correct Answer	Primary SE	Secondary SE	Obj/Cat
1	M063044895	D	6.6(A) [S]	None	STAAR: M3
2	M063046239	F	6.6(B) [S]	6.13(A) [P]	STAAR: M3
3	M061092842D	A	6.6(A) [S]	6.11(D) [P]	STAAR: M3
4	M061092850D	G	6.6(B) [S]	6.11(B) [P]	STAAR: M3
5	M06025456CS	90°	6.8(C) [S]	None	STAAR: M4
6	M06019021CS	70	6.6(B) [S]	6.11(B) [P]	STAAR: M3
7	M061092848D	C	6.6(A) [S]	6.11(D) [P]	STAAR: M3
8	M061092858D	H	6.8(C) [S]	6.11(C) [P]	STAAR: M4
9	M061092854D	A	6.6(B) [S]	6.13(B) [P]	STAAR: M3
10	M061092860D	H	6.8(C) [S]	6.11(D) [P]	STAAR: M4