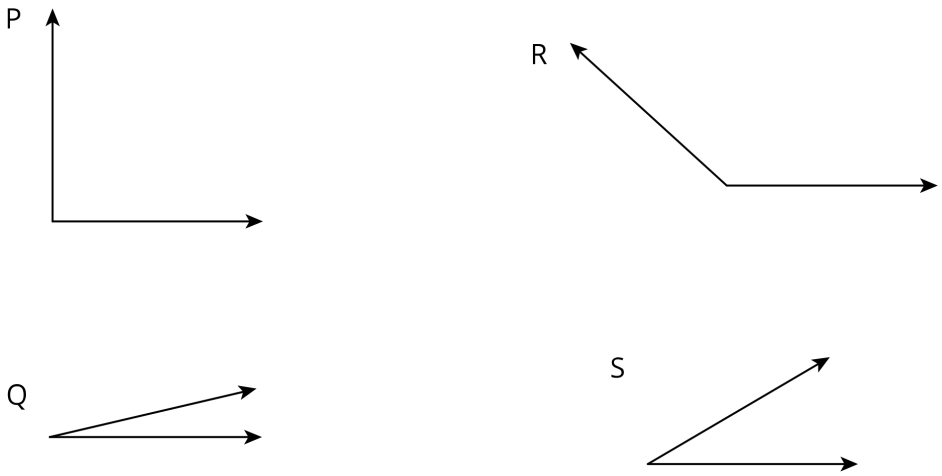
NAME DATE PERIOD

Grade 4, Unit 7, Section B: Additional Practice Problems

1. Order the size of the angles from least to greatest.

_____ , _____ , _____ , _____



(From Unit 7, Lesson 6.)

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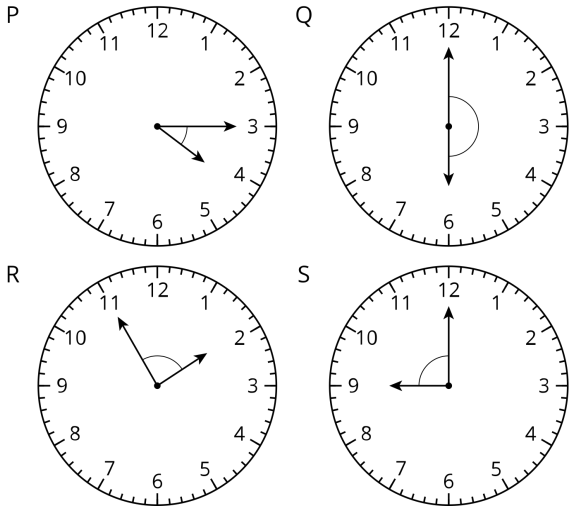
2. Decide if each statement about the size of the angle made by the hands of each clock is true or false.



	True	False
a. The size of the angle made by the hands of clock Q is the largest.		
b. The size of the angle made by the hands of clock S is the smallest.		
c. The size of the angle made by the hands of clock R is larger than that of clock P.		
d. The size of the angle made by the hands of clock P is larger than that of clock S.		
e. The angle on clock P is larger than the angle on clock Q by about 5 minutes.		
f. The angle on clock Q is larger than the angle on clock S by about 15 minutes.		

(From Unit 7, Lesson 7.)

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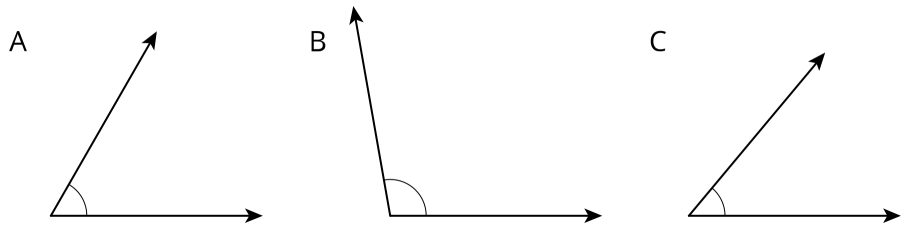
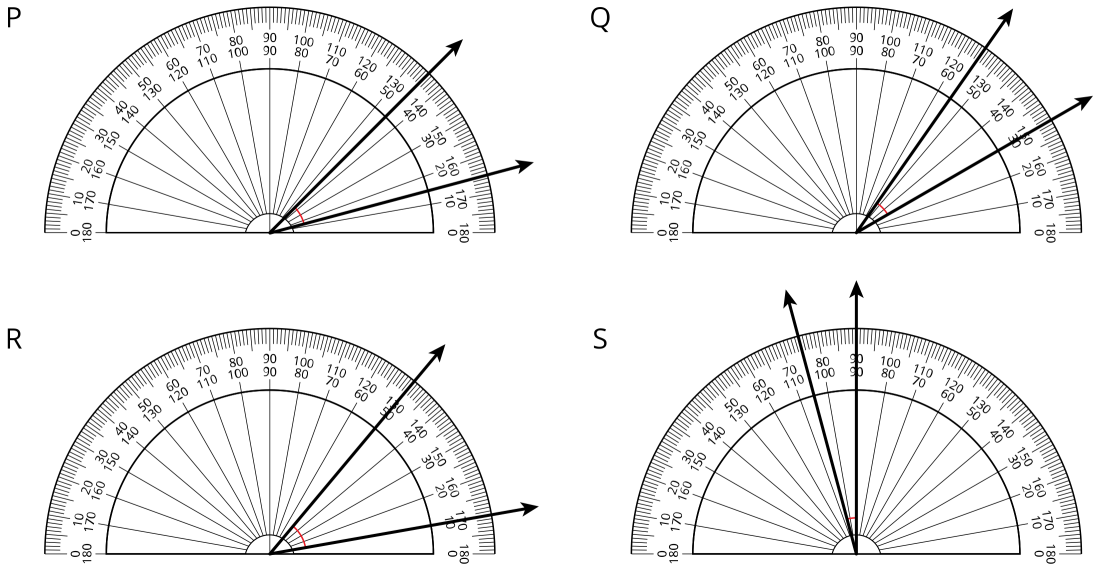
3. What is the estimated size of each angle?



- The estimated size of angle A is _____.
- The estimated size of angle B is _____.
- The estimated size of angle C is _____.

(From Unit 7, Lesson 8.)

4. Find the measurement of each angle.



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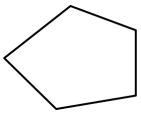
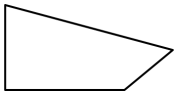
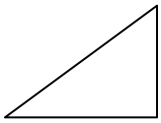
(From Unit 7, Lesson 9.)

5. a. Sort the shapes with perpendicular segments and those without perpendicular segments.

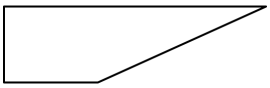
Shapes with perpendicular segments	Shapes without perpendicular segments

A. 

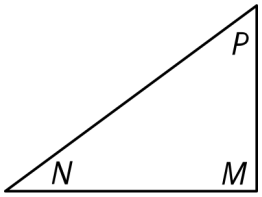
B. 

C. 

D. 

E. 

b. Find the measurement of each angle of the shape.



(From Unit 7, Lesson 10.)

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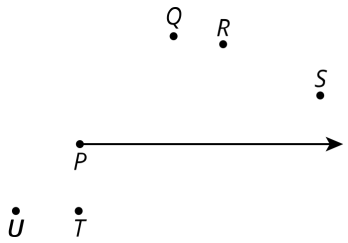
6. Complete each sentence by selecting the correct point that should be joined to the starting point of the ray to form angles of given measures.



a. Join point _____ to point P to form an angle that is $90°$.

b. Join point _____ to point P to form an angle that is $45°$.

c. Join point _____ to point P to form an angle that is $105°$.

d. Join point _____ to point P to form an angle that is $25°$.

e. Join point _____ to point P to form an angle that is $70°$.

(From Unit 7, Lesson 11.)

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7. EXPLORATION

Clare is studying quadrilaterals. She noticed that when drawing 2 lines inside the quadrilaterals to connect the vertices, she sometimes would create perpendicular intersecting lines, but not always.

a. What are some quadrilaterals that Clare would find to have perpendicular lines when connecting the vertices?

b. What are examples of quadrilaterals that do not create perpendicular lines when connecting the vertices?

c. Is there a way Clare could know, before connecting the vertices, if she will create perpendicular lines? Explain.

_____

_____

_____