

Lesson 4 I can compare and order angles.

Read through the following 2 pages then complete the questions below.

Introduction

Label these angles as acute, right angle or obtuse.

Blank boxes for labeling: (blue), (purple), (green), (pink)

Introduction

Label these angles as acute, right angle or obtuse.

Labels: **Obtuse** (blue), **Right Angle** (purple), **Acute** (green), **Obtuse** (pink)

Varied Fluency 1

Which angle is the largest?

Angles A, B, and C

Varied Fluency 1

Which angle is the largest?

Angles A, B, and C

Varied Fluency 2

Here are some segments with different sized angles at their points. Put the angles in order from smallest to largest.

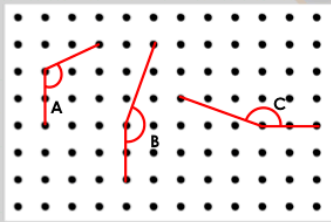
Varied Fluency 2

Here are some segments with different sized angles at their points. Put the angles in order from smallest to largest.

A, C, D, B

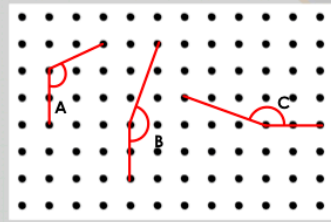
Varied Fluency 3

True or false?
Angle A is smaller than angle B. Angles B and C are the same size.



Varied Fluency 3

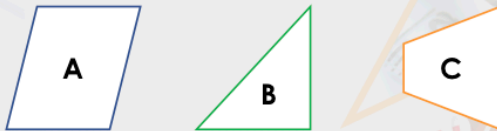
True or false?
Angle A is smaller than angle B. Angles B and C are the same size.



True

Problem Solving 1

Which of these shapes contains the smallest angle?



Problem Solving 1

Which of these shapes contains the smallest angle?



Reasoning 1

Kaito is discussing angles.



I have 3 angles. One angle is obtuse, one is 90° and the other is acute. I think that the 90° angle is the smallest angle.

Is Kaito correct? Explain your answer.

Kaito is incorrect because...

Reasoning 1

Kaito is discussing angles.



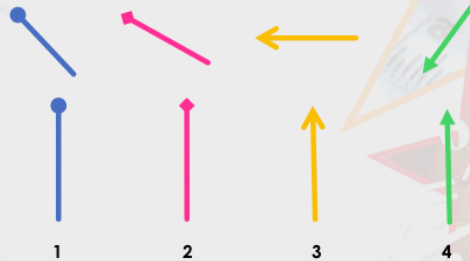
I have 3 angles. One angle is obtuse, one is 90° and the other is acute. I think that the 90° angle is the smallest angle.

Is Kaito correct? Explain your answer.

Kaito is incorrect because an acute angle is smaller than 90°.

Problem Solving 2

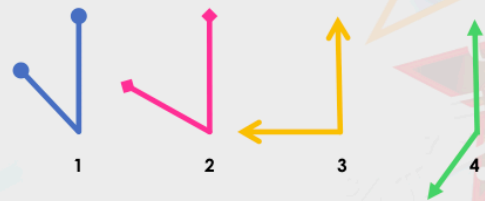
If you join together the end points of the matching lines below, do they make 4 angles in order from smallest to largest? Be sure to compare the smallest side of each angle created.



Problem Solving 2

If you join together the end points of the matching lines below, do they make 4 angles in order from smallest to largest? Be sure to compare the smallest side of each angle created.

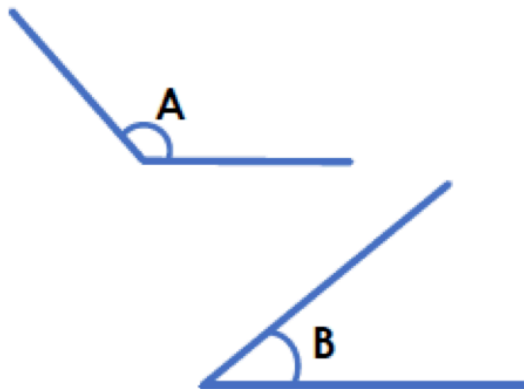
Yes



Compare and Order Angles

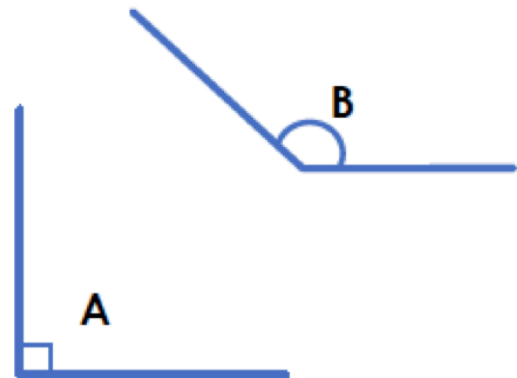
Compare and Order Angles

1a. Which angle is the largest?



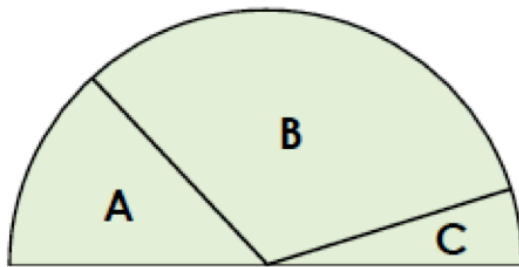
VF

1b. Which angle is the smallest?



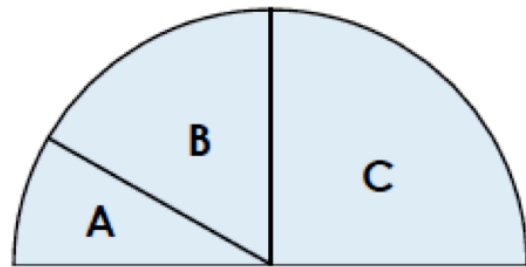
VF

2a. Here are some segments with different sized angles at their points. Put the angles in order from largest to smallest.



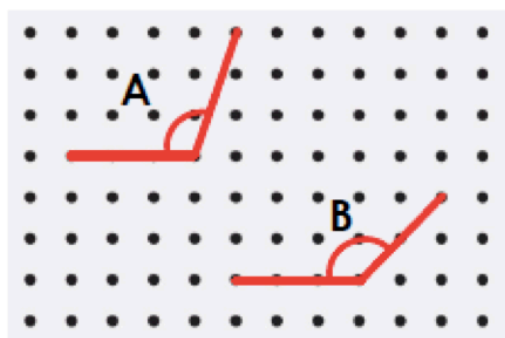
VF

2b. Here are some segments with different sized angles at their points. Put the angles in order from smallest to largest.



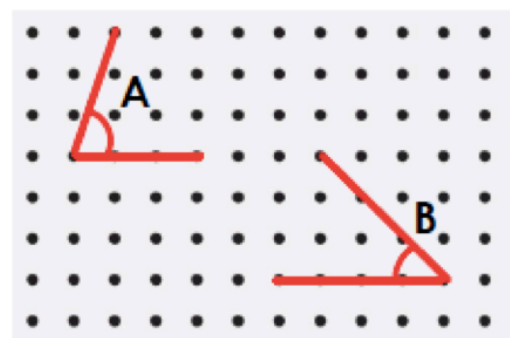
VF

3a. True or false? Angle A is smaller than angle B.



VF

3b. True or false? Angle B is larger than angle A.



VF

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Compare and Order Angles

1a. Which of these shapes contains the largest angle?



PS

Compare and Order Angles

1b. Which of these shapes contains the smallest angle?



PS

2a. Ali is discussing angles.



I think that an angle of 45° is smaller than an obtuse angle.

Is Ali correct? Explain your answer.



R

2b. Meg is discussing angles.



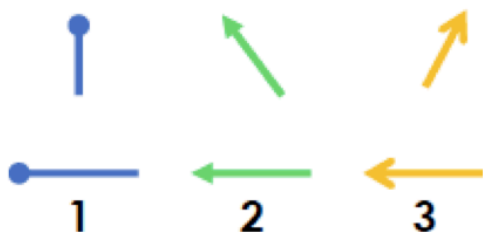
I think that an angle of 110° is smaller than a right angle.

Is Meg correct? Explain your answer.



R

3a. If you join together the end points of the matching lines below, do they make 3 angles in order from smallest to largest? Be sure to compare the smallest side of each angle created.



PS

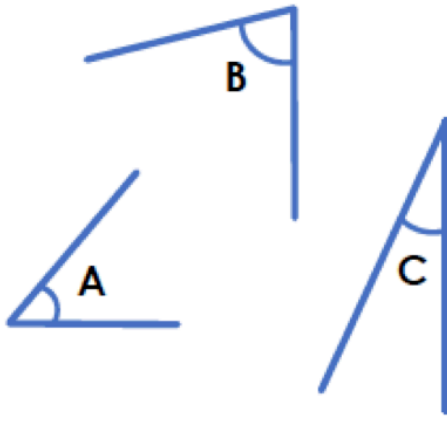
3b. If you join together the end points of the matching lines below, do they make 3 angles in order from largest to smallest? Be sure to compare the smallest side of each angle created.



PS

Compare and Order Angles

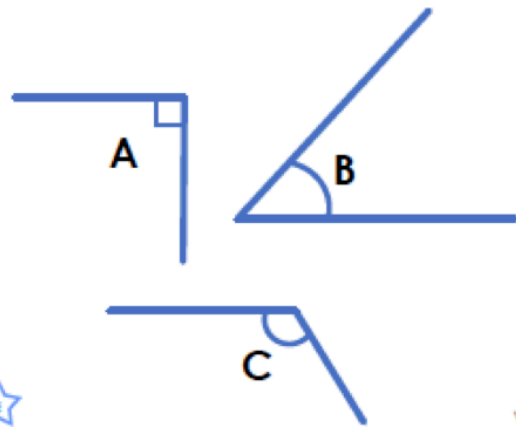
4a. Which angle is the smallest?



VF

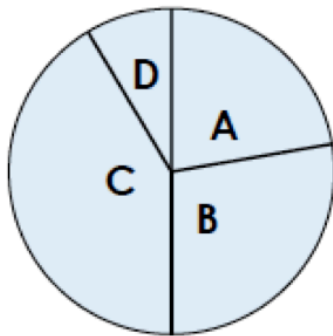
Compare and Order Angles

4b. Which angle is the largest?



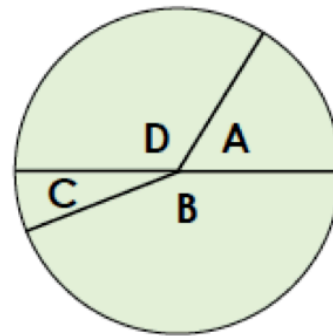
VF

5a. Here are some segments with different sized angles at their points. Put the angles in order from smallest to largest.



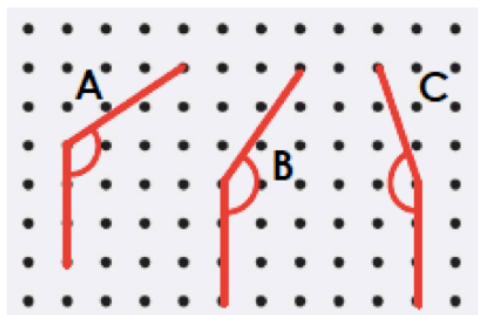
VF

5b. Here are some segments with different sized angles at their points. Put the angles in order from largest to smallest.



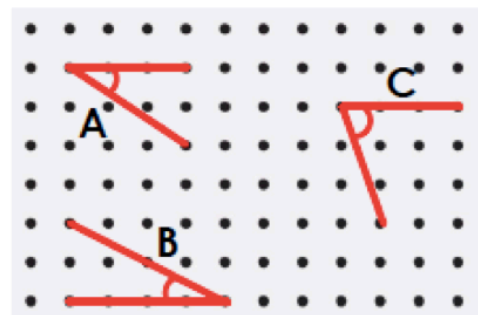
VF

6a. True or false? Angle A is smaller than angle B, which is larger than angle C.



VF

6b. True or false? Angle A is larger than angle B, which is smaller than angle C.

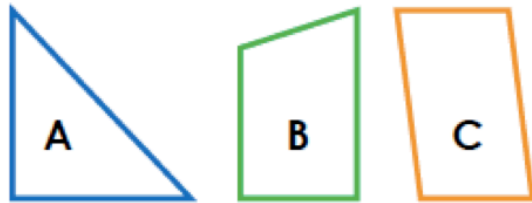


VF

Compare and Order Angles

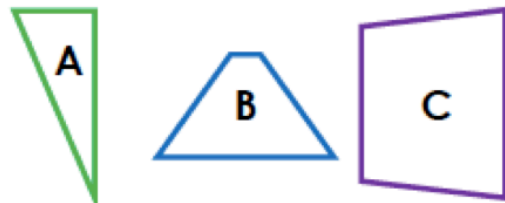
Compare and Order Angles

4a. Which of these shapes contains the smallest angle?



PS

4b. Which of these shapes contains the largest angle?



PS

5a. Sol is discussing angles.



Sol

I have 3 angles. One angle is acute, one is a right angle and the other is 170° . I think that the right angle is the smallest angle.

Is Sol correct? Explain your answer.



R

5b. Zoe is discussing angles.



Zoe

I have 3 angles. One is 89° , one is a right angle and the other is obtuse. I think that the obtuse angle is the smallest angle.

Is Zoe correct? Explain your answer.



R

6a. If you join together the end points of the matching lines below, do they make 4 angles in order from largest to smallest? Be sure to compare the smallest side of each angle created.



PS

6b. If you join together the end points of the matching lines below, do they make 4 angles in order from smallest to largest? Be sure to compare the smallest side of each angle created.

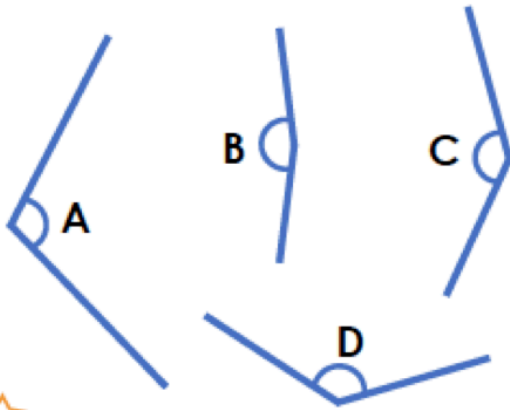


PS

Compare and Order Angles

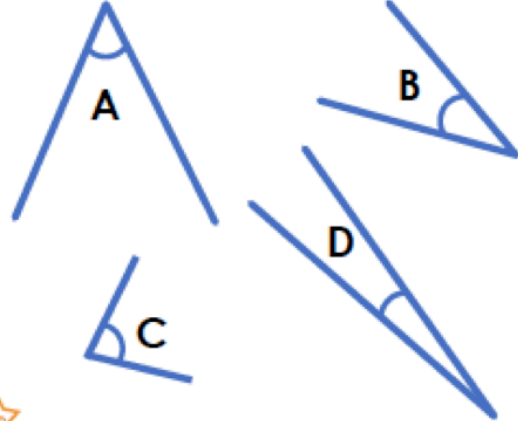
Compare and Order Angles

7a. Which angle is the largest?



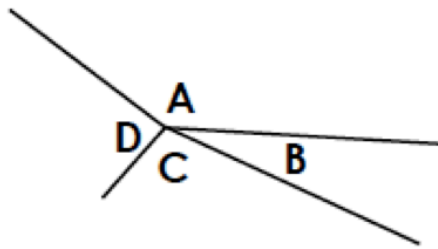
VF

7b. Which angle is the smallest?



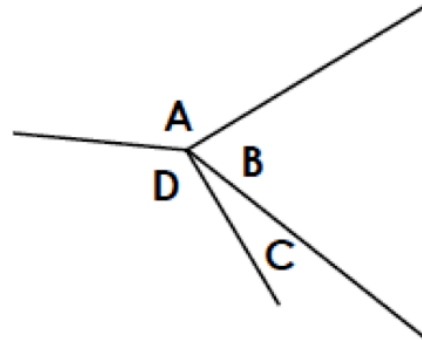
VF

8a. Here are some segments with different sized angles at their points. Put the angles in order from largest to smallest.



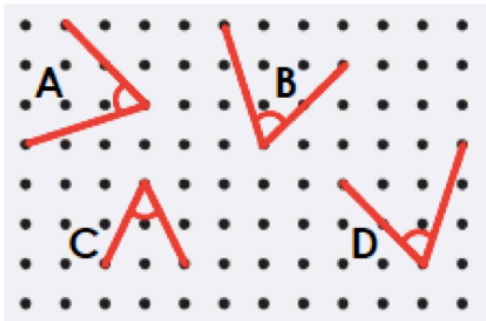
VF

8b. Here are some segments with different sized angles at their points. Put the angles in order from smallest to largest.



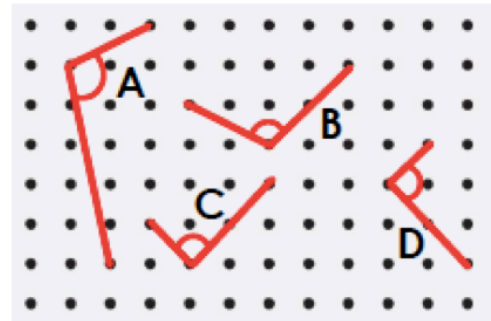
VF

9a. True or false? Angle A is the same size as angles B and D, which are bigger than angle C.



VF

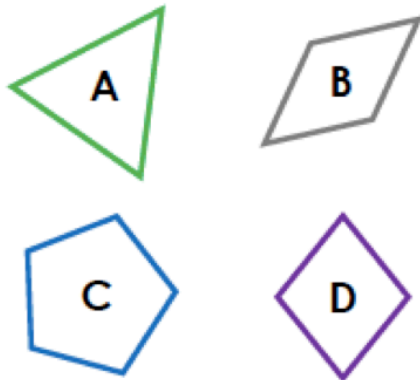
9b. True or false? Angles A and B are the same size. They are larger than angle C but smaller than angle D.



VF

Compare and Order Angles

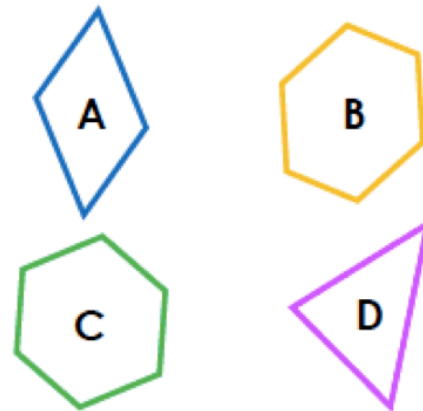
7a. Which of these shapes contains the largest angle?



PS

Compare and Order Angles

7b. Which of these shapes contains the smallest angle?



PS

8a. Zane is discussing angles.



Zane

I have 4 angles. One angle is 135° , one is obtuse, one is a right angle and the other is 73° . I think that the 135° angle is the largest angle.

Is Zane correct? Explain your answer.



R

8b. Hal is discussing angles.



Hal

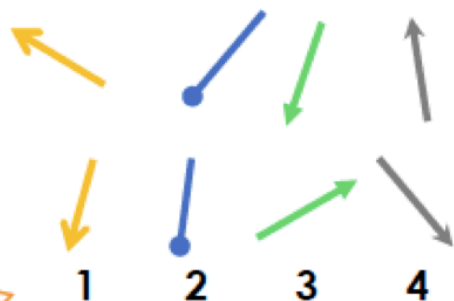
I have 4 angles. One is obtuse, one is 90° , one is acute and one is 25° . The 90° angle must be the 2nd largest angle.

Is Hal correct? Explain your answer.



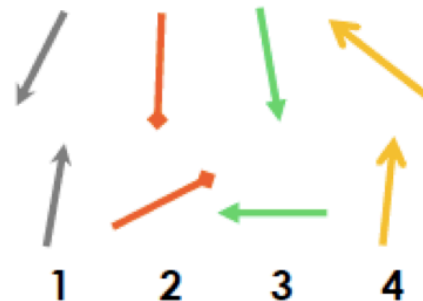
R

9a. If you join together the end points of the matching lines below, do they make 4 angles in order from smallest to largest? Be sure to compare the smallest side of each angle created.



PS

9b. If you join together the end points of the matching lines below, do they make 4 angles in order from largest to smallest? Be sure to compare the smallest side of each angle created.



PS

Varied Fluency
Compare and Order Angles

Developing

- 1a. A
- 2a. B, A, C
- 3a. True

Expected

- 4a. C
- 5a. D, A, B, C
- 6a. False (Angle A is smaller than angle B, which is smaller than angle C).

Greater Depth

- 7a. B
- 8a. A, C, D, B
- 9a. True

Varied Fluency
Compare and Order Angles

Developing

- 1b. A
- 2b. A, B, C
- 3b. False, A is larger than B.

Expected

- 4b. C
- 5b. B, D, A, C
- 6b. True

Greater Depth

- 7b. D
- 8b. C, B, D, A
- 9b. False (Angle B is larger than Angle A. They are both larger than angles C and D).

Reasoning and Problem Solving
Compare and Order Angles

Developing

- 1a. Shape A
- 2a. Ali is correct because an obtuse angle is more than 90° but less than 180° .
- 3a. No, the correct order would be 2, 1, 3.

Expected

- 4a. Shape A
- 5a. Sol is incorrect because an acute angle is smaller than a right angle.
- 6a. Yes, the angles are ordered correctly.

Greater Depth

- 7a. Shape B
- 8a. Zane might be correct but he doesn't know the exact size of the other obtuse angle which could be larger.
- 9a. No. The correct order would be 2, 1, 3, 4.

Reasoning and Problem Solving
Compare and Order Angles

Developing

- 1b. Shape A
- 2b. Meg is incorrect because a right angle is 90° and 110° is larger.
- 3b. Yes, the angles are ordered correctly.

Expected

- 4b. Shape B
- 5b. Zoe is incorrect because the 89° angle is smaller than the right angle and an obtuse angle.
- 6b. No, the correct order would be 4, 2, 3, 1.

Greater Depth

- 7b. Shape D
- 8b. Hal is correct. The obtuse angle is the largest and the acute and 25° angles are less than 90° .
- 9b. Yes, the angles are ordered correctly.