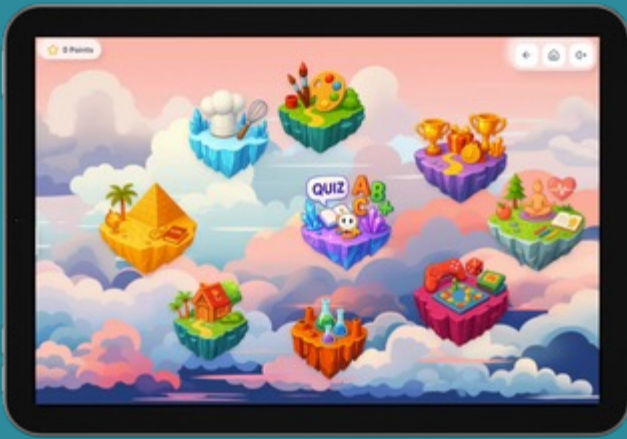


Sukindi

— LEARNING —

Homework without the hassle

Sukindi is an Australian learning platform that supports Teachers, Parents and Students with an interactive homework app and downloadable resources.



Scan to start your
free 7-day trial

www.sukindi.com.au



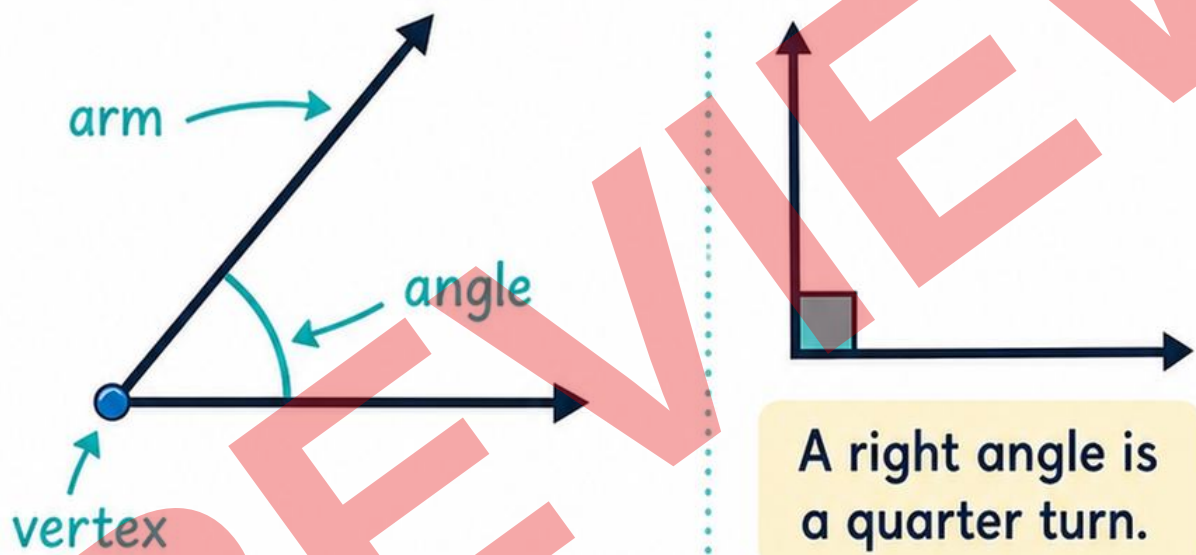
Angles - Year 3

Table of Contents	
Presentation: Angles - Year 3	
Classroom Display: Angles Are Turns	
Activity: Right Angle Hunt Pack	
Game: Everyday Angle Match	
Worksheet: Angle Parts - Arms, Vertex and Turn	
Worksheet: Angles All Around	
Worksheet: Right Angle or Not?	
Worksheet: Clockface Turns	
Worksheet: Ordering Angles	
Worksheet: Compare and Explain Angles	
Quiz: Angles - Year 3	
Assessment: Angle Adventure Check	
Rubric: Angles - Year 3 Rubric	



ANGLES ARE TURNS

An angle shows the amount of turn between two straight arms.



A right angle is a quarter turn.

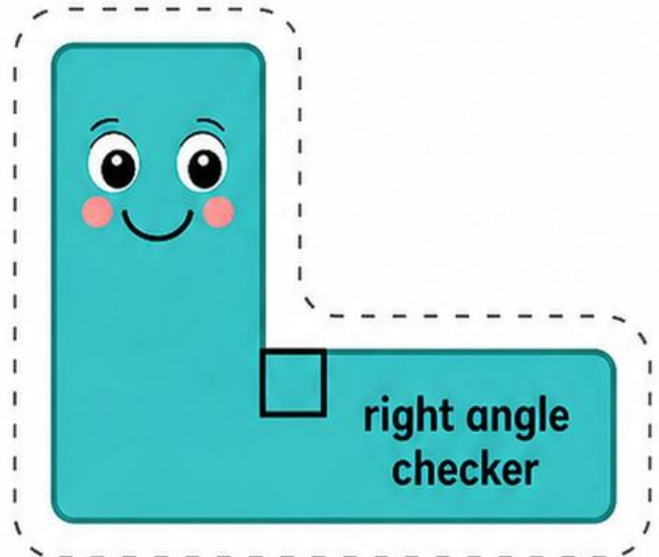
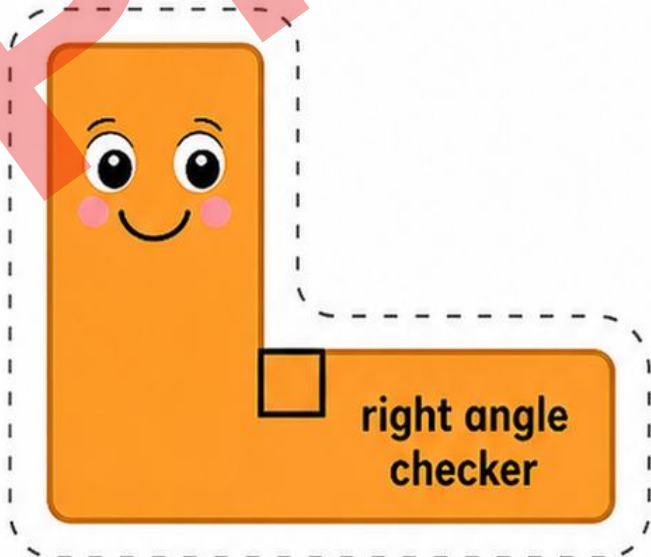
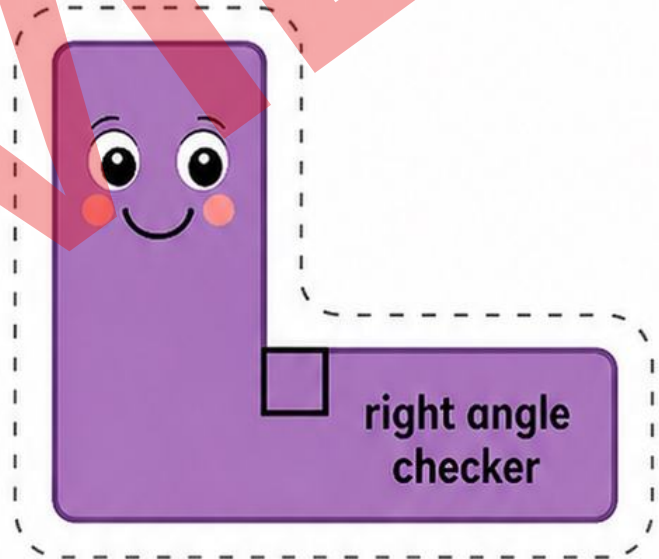
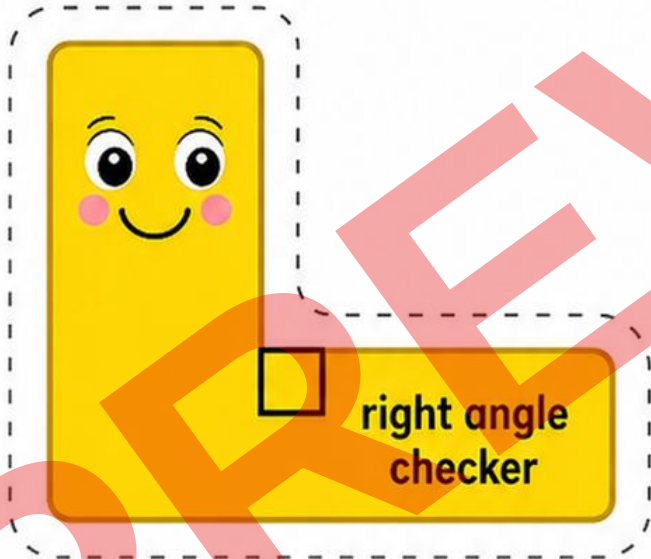
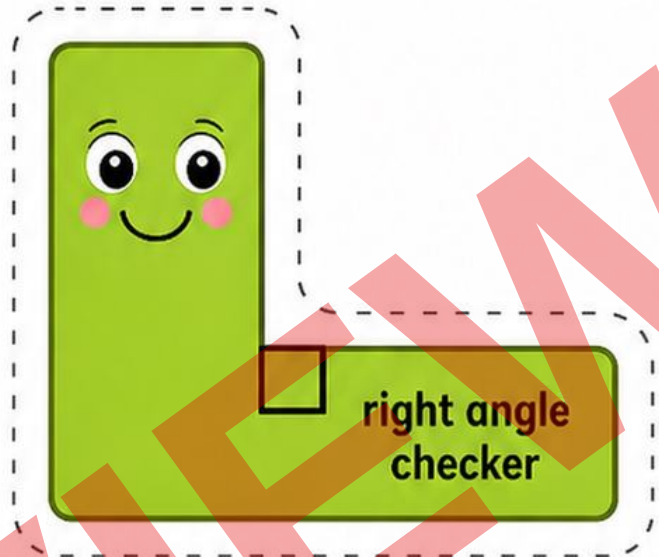
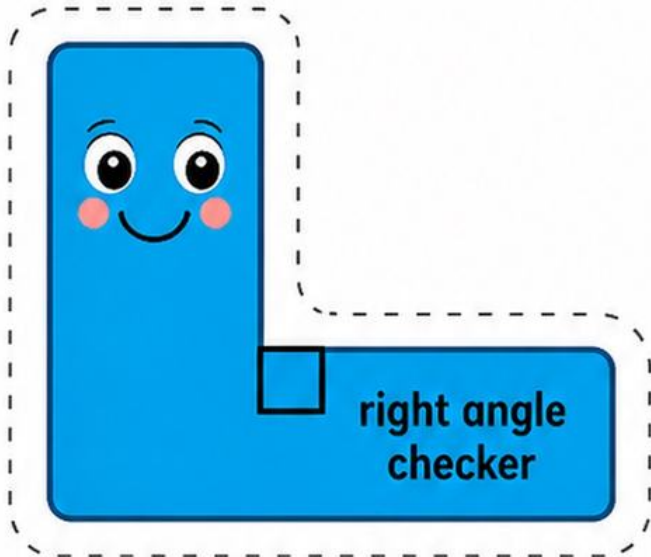
Compare angles by the amount of turn, not by how long the arms are.

Look for angles in clocks, doors, scissors, roofs, corners and body poses.



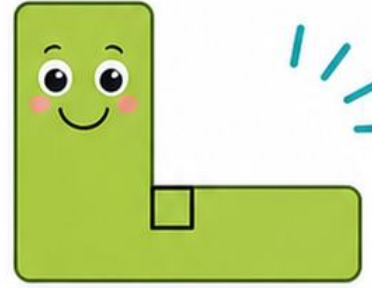
RIGHT ANGLE MEASURERS

Cut out a checker. Place the square corner on an object to test for a right angle.



RIGHT ANGLE HUNT

Name: _____



Use your right-angle checker to test objects around the room.
Record what you find.

Object	Sketch	Right angle?	How do you know?

Reflection: One object that surprised me was _____
because _____.

EVERYDAY ANGLE MATCH



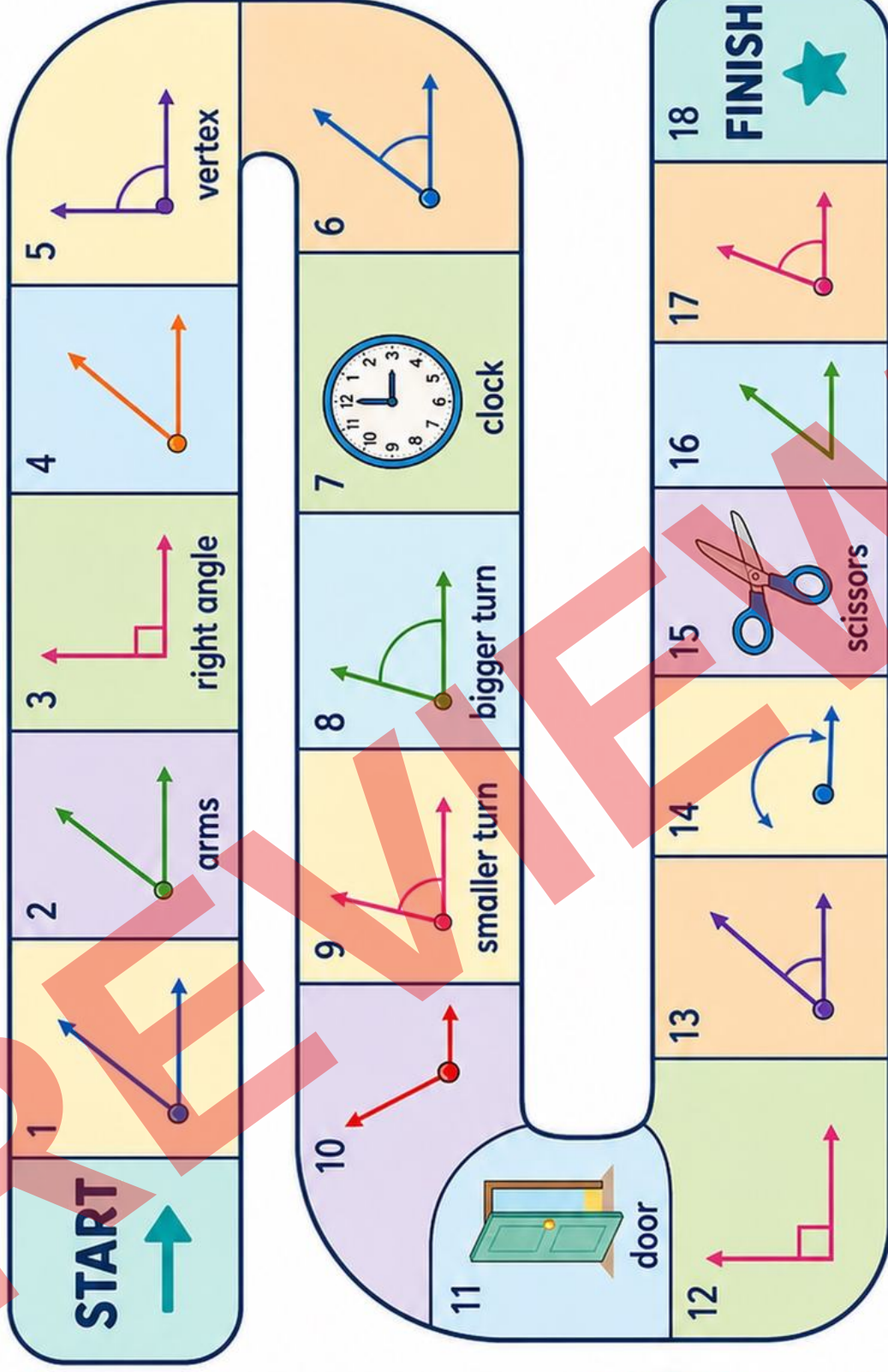
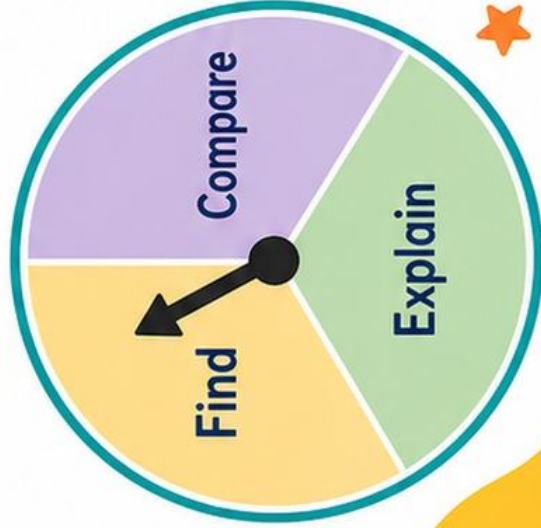
Players take turns drawing an angle card.



Move to a matching space, then explain the angle.



Use these words: arm, vertex, turn, right angle, bigger, smaller.



EVERYDAY ANGLE CARDS 1



Clock: Which angle is shown?



Door: Is the turn bigger or smaller?



Scissors: Point to the arms.



Peg: Where is the vertex?



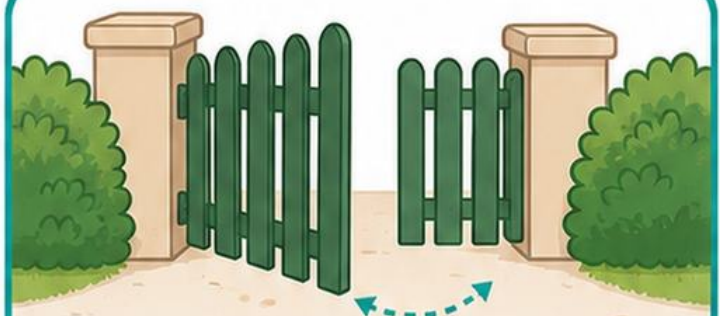
Book: Compare the turn.



Laptop: Find the angle.



Chair: Is there a right angle?

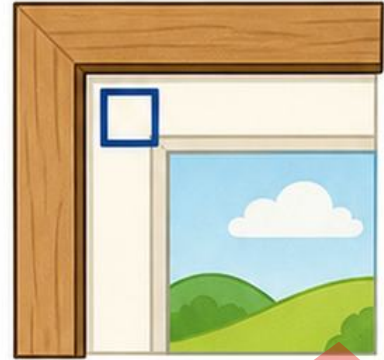


Gate: Explain the turn.

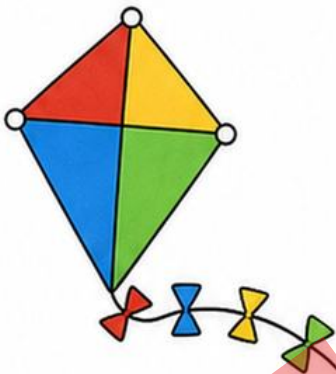
EVERYDAY ANGLE CARDS 2



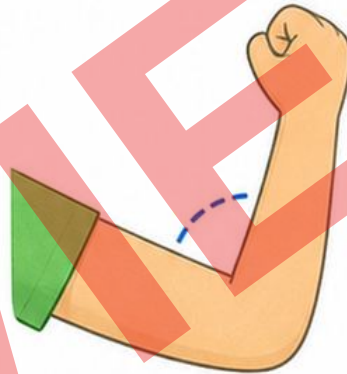
Roof: Find the angle.



Frame: Is it a right angle?



Kite: Label the vertex.



Elbow: Make a matching angle.



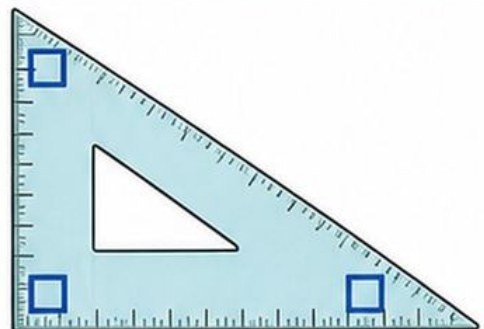
Puppet: Compare the turn.



Sign: Which angle is largest?



Umbrella: Point to the arms.

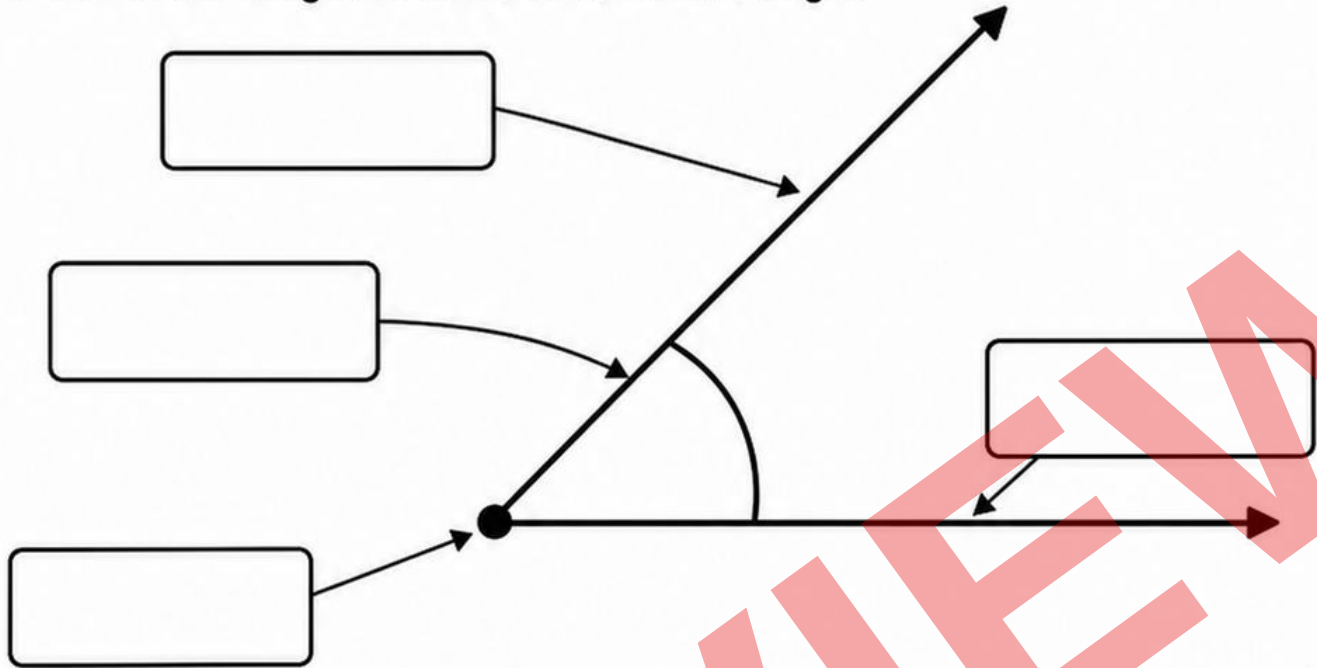


Set square: Check for right angles.

ANGLE PARTS

Name: _____

1. Label the diagram: arm, arm, vertex, angle.



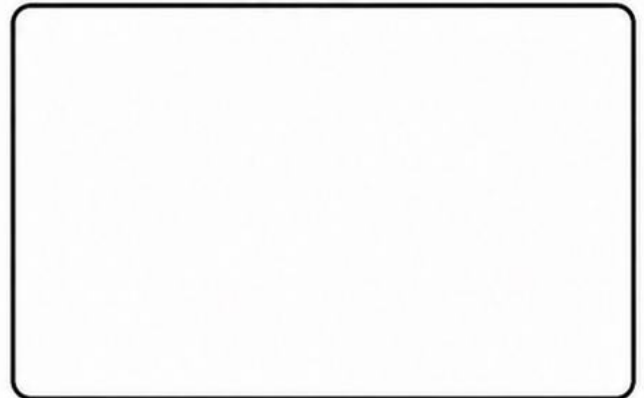
2. Complete the sentence.

An angle is the amount of _____ between two straight _____.

3. Draw two different angles. Label the arms and vertex on each one.

Angle 1

Angle 2



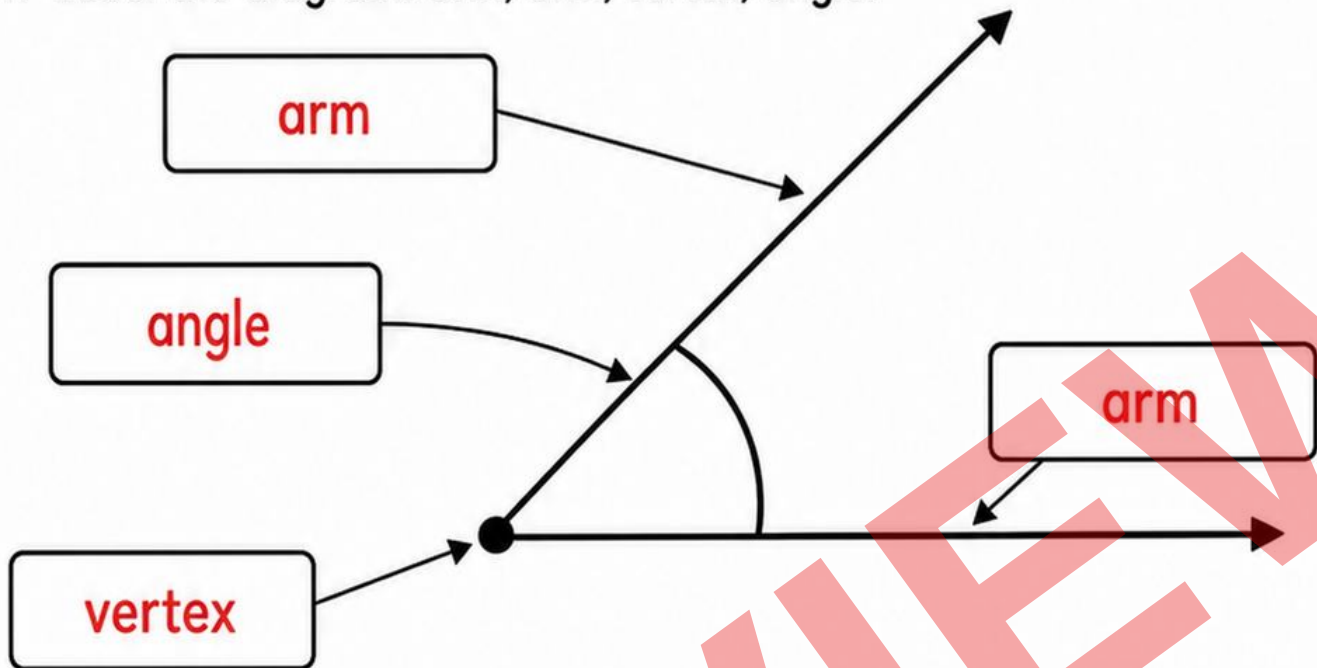
4. Circle the word that best completes the idea.

Longer arms make an angle: bigger / smaller / the same size

ANGLE PARTS

Name: ANSWERS

1. Label the diagram: arm, arm, vertex, angle.

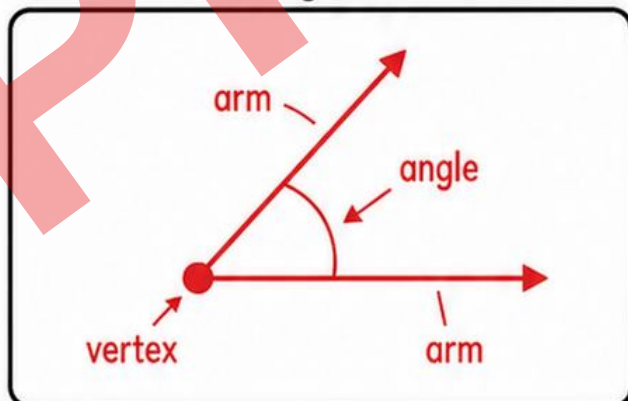


2. Complete the sentence.

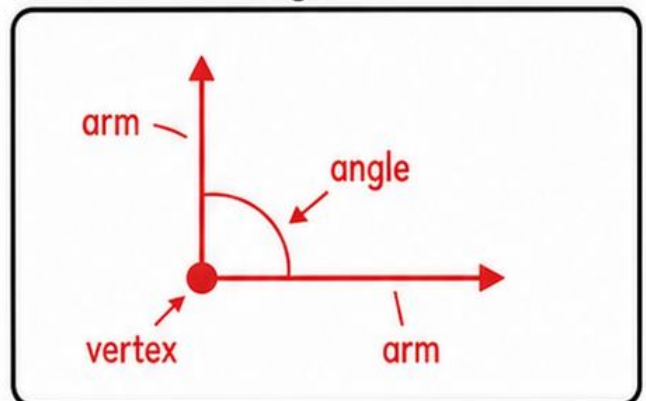
An angle is the amount of turn between two straight arms.

3. Draw two different angles. Label the arms and vertex on each one.

Angle 1



Angle 2



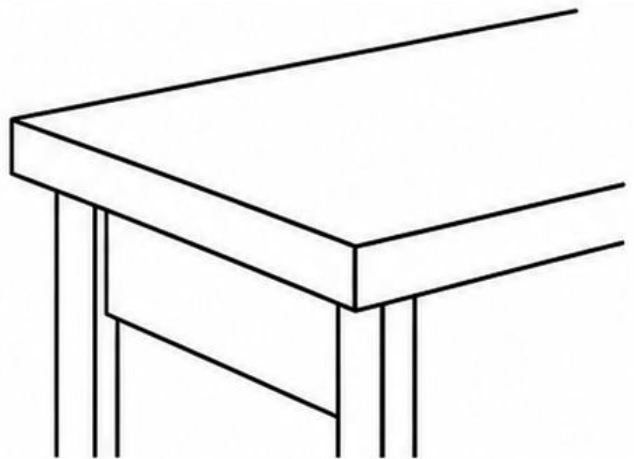
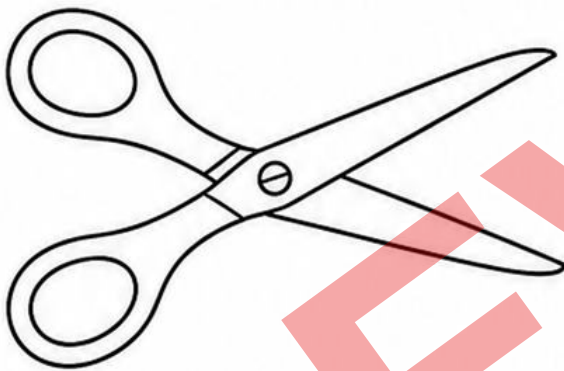
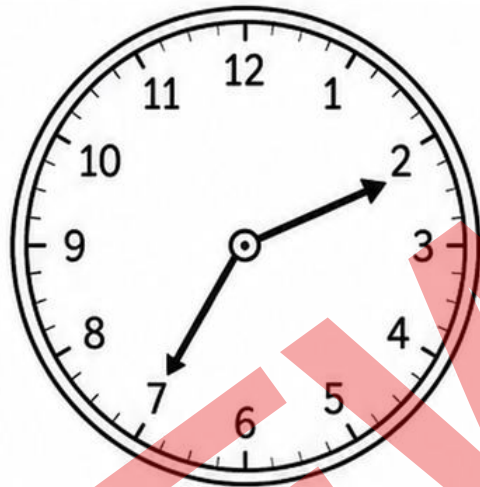
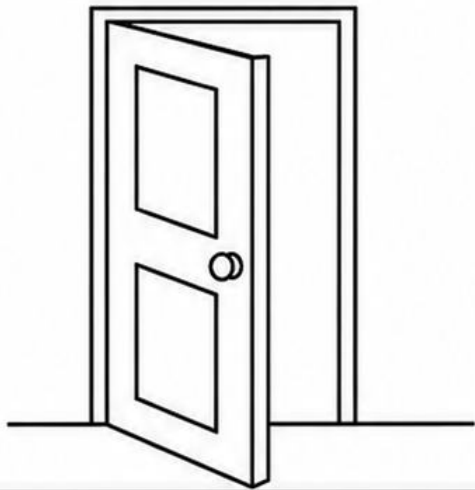
4. Circle the word that best completes the idea.

Longer arms make an angle: bigger / smaller / the same size

Name: _____

ANGLES ALL AROUND

Circle one angle in each picture. Mark the vertex with a dot.



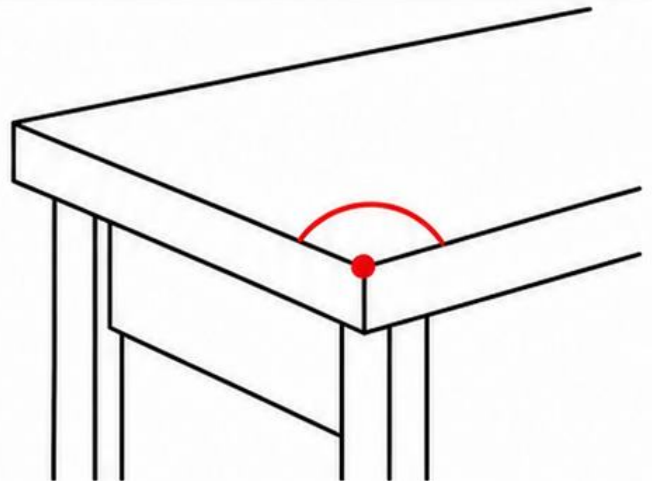
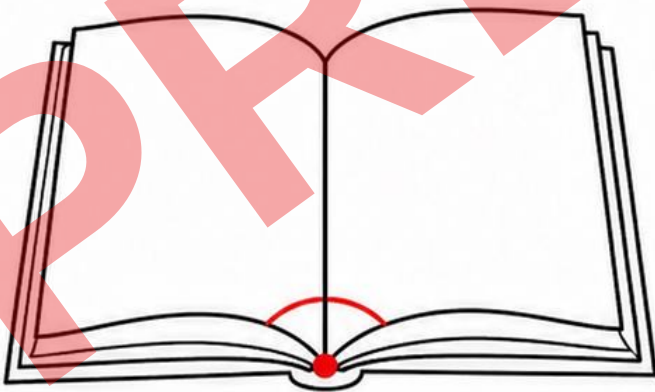
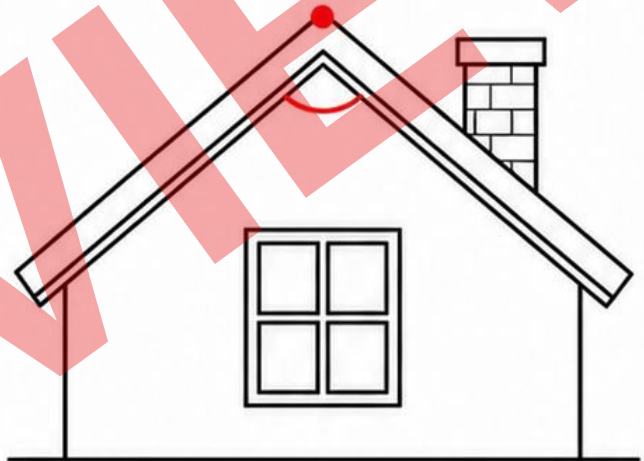
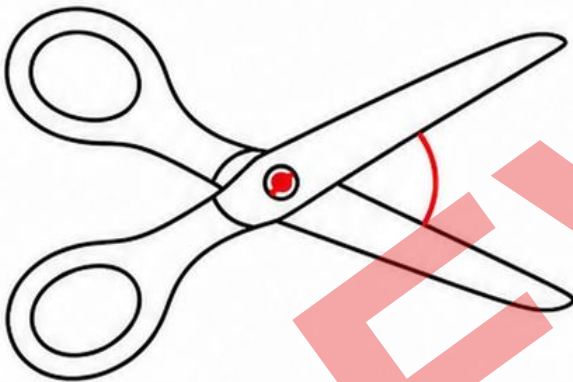
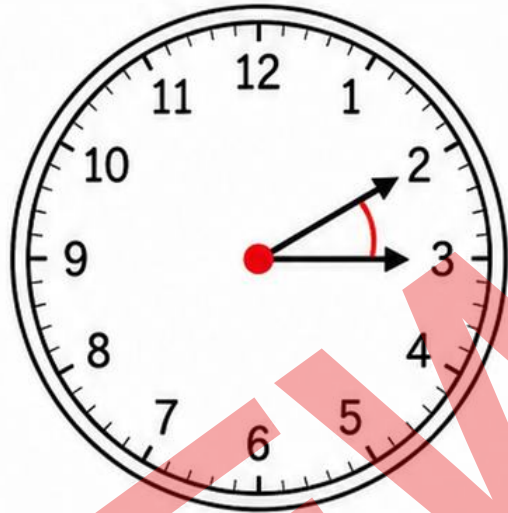
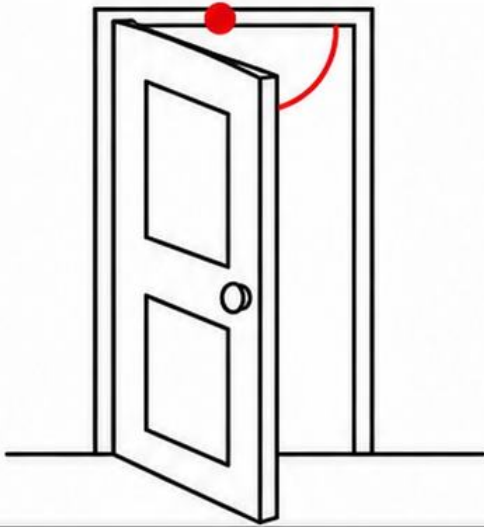
Choose one picture. Describe the angle you found.

I chose _____.

The angle is formed by _____.

ANGLES ALL AROUND

Circle one angle in each picture. Mark the vertex with a dot.



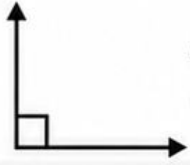
Choose one picture. Describe the angle you found.

I chose door.

The angle is formed by the open door and the door frame.

RIGHT ANGLE OR NOT?

Name: _____



A right angle is
a quarter turn.

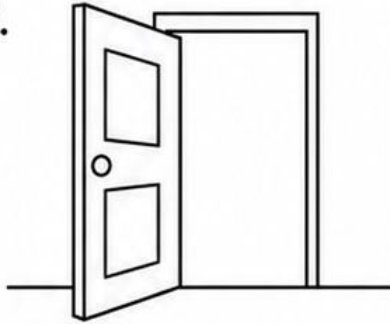
Use a right-angle checker or your eyes.
Tick one box for each picture.

1.



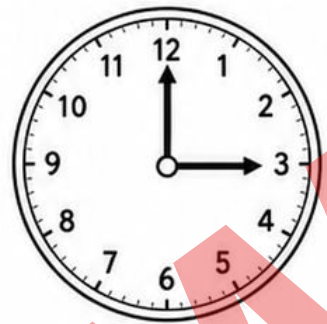
☐ right angle ☐ not a right angle

2.



☐ right angle ☐ not a right angle

3.



☐ right angle ☐ not a right angle

4.



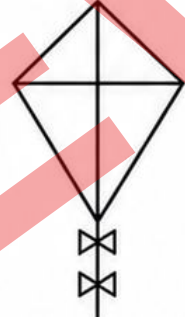
☐ right angle ☐ not a right angle

5.



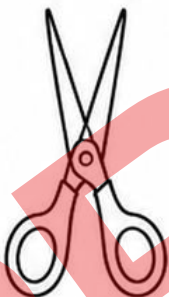
☐ right angle ☐ not a right angle

6.



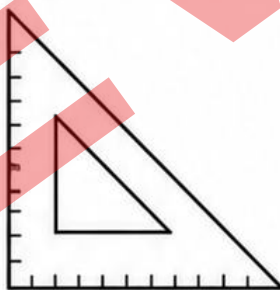
☐ right angle ☐ not a right angle

7.



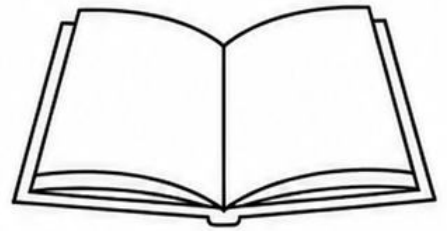
☐ right angle ☐ not a right angle

8.



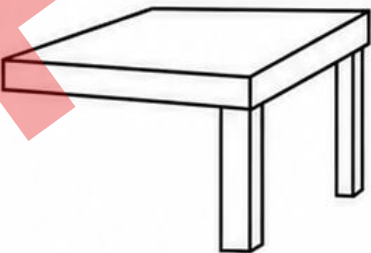
☐ right angle ☐ not a right angle

9.



☐ right angle ☐ not a right angle

10.



☐ right angle ☐ not a right angle

11.



☐ right angle ☐ not a right angle

12.

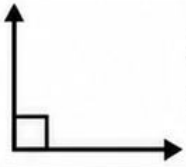


☐ right angle ☐ not a right angle

Challenge: Choose one not-a-right-angle picture. Explain how you know.

RIGHT ANGLE OR NOT?

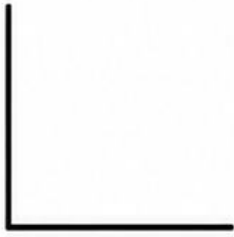
Name: ANSWERS



A right angle is
a quarter turn.

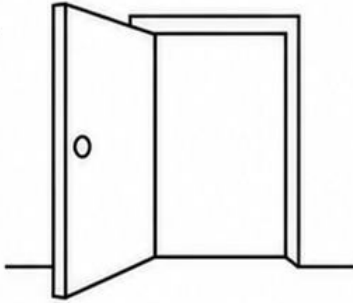
Use a right-angle checker or your eyes.
Tick one box for each picture.

1.



☒ right angle ☐ not a right angle

2.



☐ right angle ☒ not a right angle

3.



☒ right angle ☐ not a right angle

4.



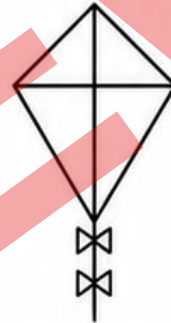
☐ right angle ☒ not a right angle

5.



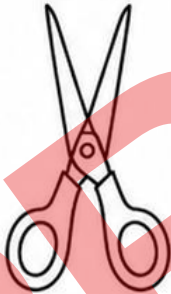
☒ right angle ☐ not a right angle

6.



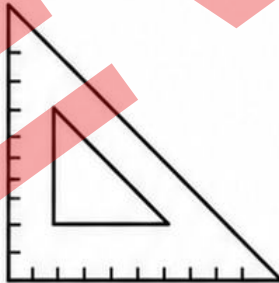
☐ right angle ☒ not a right angle

7.



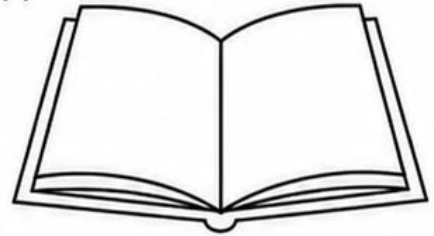
☐ right angle ☒ not a right angle

8.



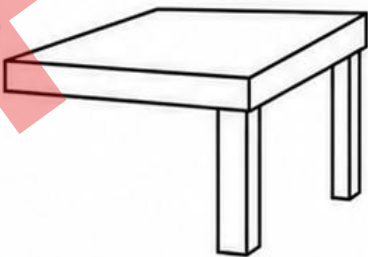
☒ right angle ☐ not a right angle

9.



☐ right angle ☒ not a right angle

10.



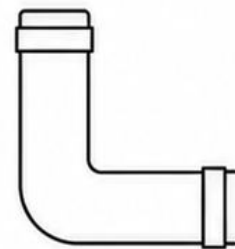
☒ right angle ☐ not a right angle

11.



☐ right angle ☒ not a right angle

12.



☒ right angle ☐ not a right angle

Challenge: Choose one not-a-right-angle picture. Explain how you know.

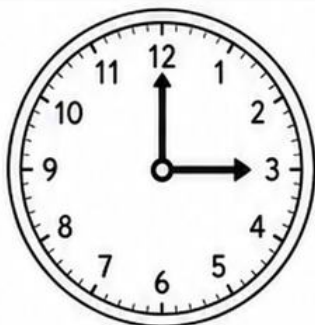
Picture 4 is not a right angle because the turn is
smaller than a quarter turn.

CLOCKFACE TURNS

Name: _____

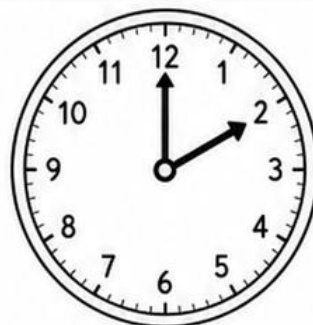
Look at the turn between the clock hands. Tick the best description.

1.



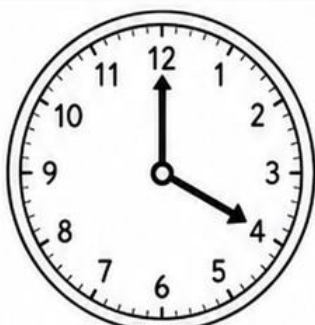
☐ small turn ☐ right angle ☐ large turn

2.



☐ small turn ☐ right angle ☐ large turn

3.



☐ small turn ☐ right angle ☐ large turn

4.



☐ small turn ☐ right angle ☐ large turn

5.



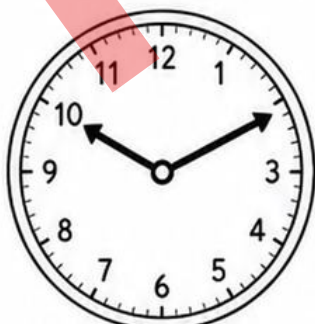
☐ small turn ☐ right angle ☐ large turn

6.



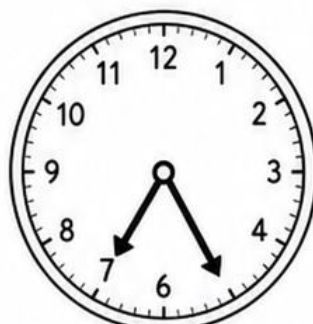
☐ small turn ☐ right angle ☐ large turn

7.



☐ small turn ☐ right angle ☐ large turn

8.



☐ small turn ☐ right angle ☐ large turn

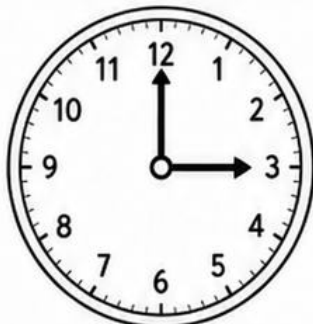
Compare: Which clock shows the largest angle? How do you know?

CLOCKFACE TURNS

Name: ANSWERS

Look at the turn between the clock hands. Tick the best description.

1.



☐ small turn ☒ right angle ☐ large turn

2.



☒ small turn ☐ right angle ☐ large turn

3.



☐ small turn ☐ right angle ☒ large turn

4.



☐ small turn ☐ right angle ☒ large turn

5.



☐ small turn ☐ right angle ☒ large turn

6.



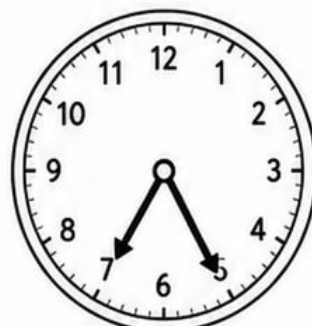
☐ small turn ☒ right angle ☐ large turn

7.



☐ small turn ☐ right angle ☒ large turn

8.



☒ small turn ☐ right angle ☐ large turn

Compare: Which clock shows the largest angle? How do you know?

Clock 4 shows the largest angle because the hands make
a straight half-turn.

ORDERING ANGLES

Name: _____

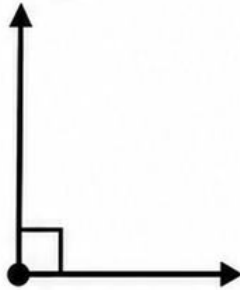
Order each set from smallest turn to largest turn.

Set A

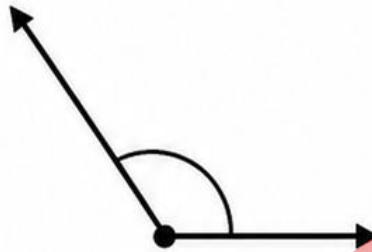
A



B



C



D



smallest

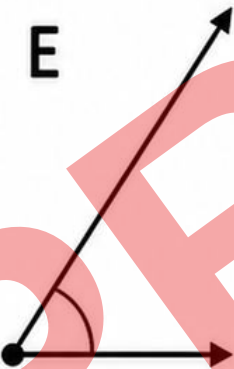
2nd

3rd

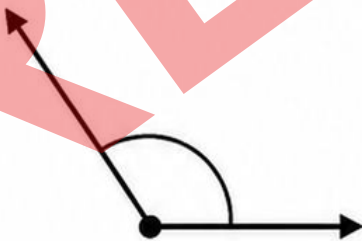
largest

Set B

E



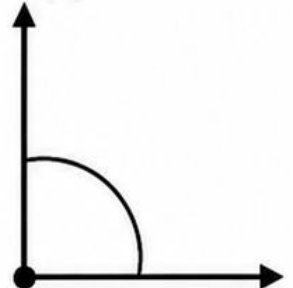
F



G



H



smallest

2nd

3rd

largest

Explain: Why does arm length not decide the size of an angle?

ORDERING ANGLES

Name: ANSWERS

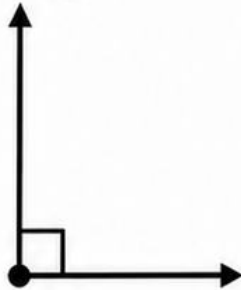
Order each set from smallest turn to largest turn.

Set A

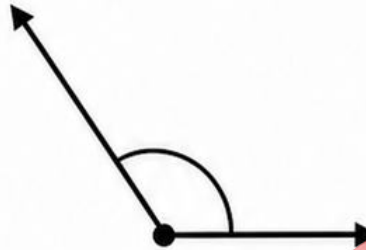
A



B



C



D



smallest

2nd

3rd

largest

D

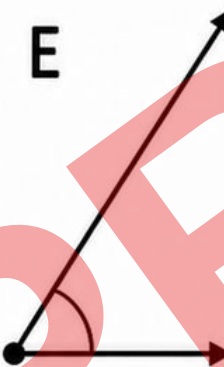
A

B

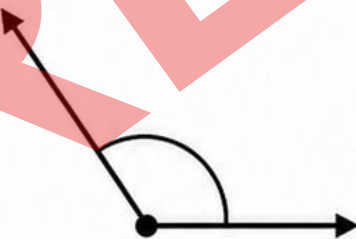
C

Set B

E



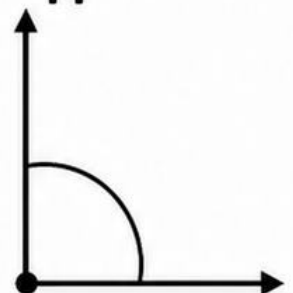
F



G



H



smallest

2nd

3rd

largest

G

E

H

F

Explain: Why does arm length not decide the size of an angle?

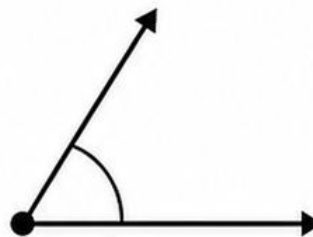
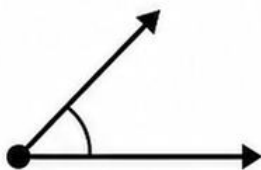
Angle size depends on the amount of turn between the arms, not how long the arms are.

COMPARE AND EXPLAIN ANGLES

Name: _____

1. Circle the bigger angle in each pair.

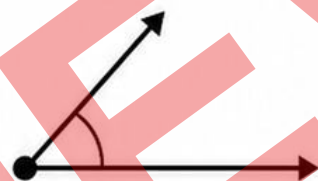
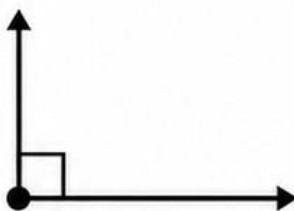
a.



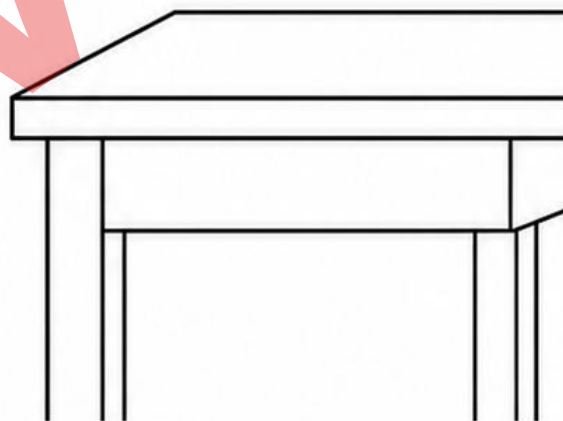
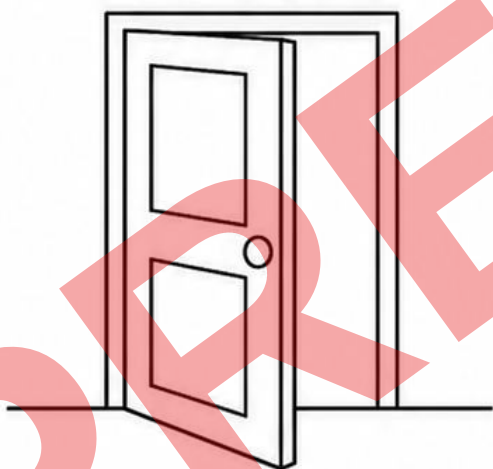
b.



c.



2. Mark one right angle in the picture. Explain how you know.



3. Sami says, "This angle is bigger because its arms are longer."



This angle is bigger because its arms are longer.

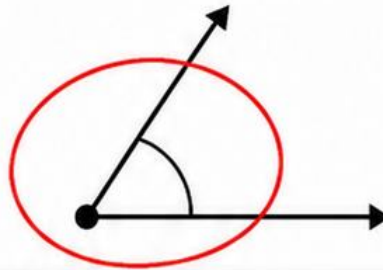
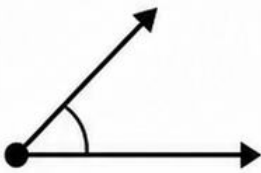
Do you agree? Explain your thinking.

COMPARE AND EXPLAIN ANGLES

Name: ANSWERS

1. Circle the bigger angle in each pair.

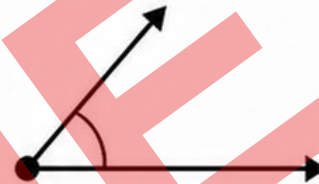
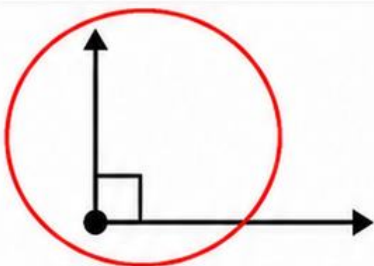
a.



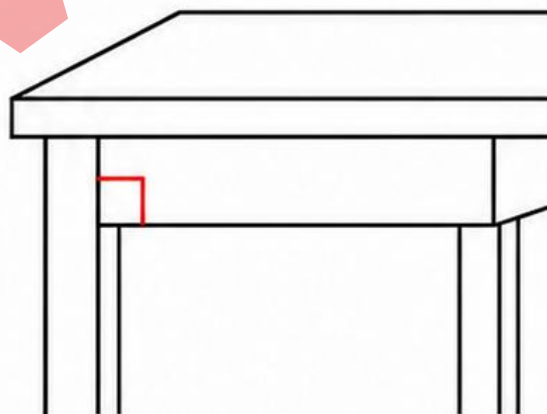
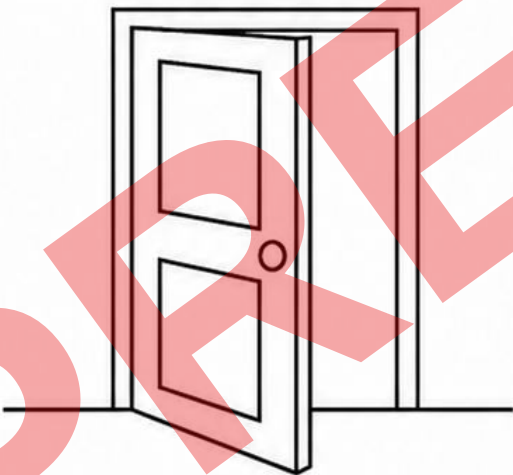
b.



c.



2. Mark one right angle in the picture. Explain how you know.



It is a quarter turn.

The arms meet to make a right angle.

3. Sami says, "This angle is bigger because its arms are longer."



This angle is bigger because its arms are longer.

Do you agree? Explain your thinking.

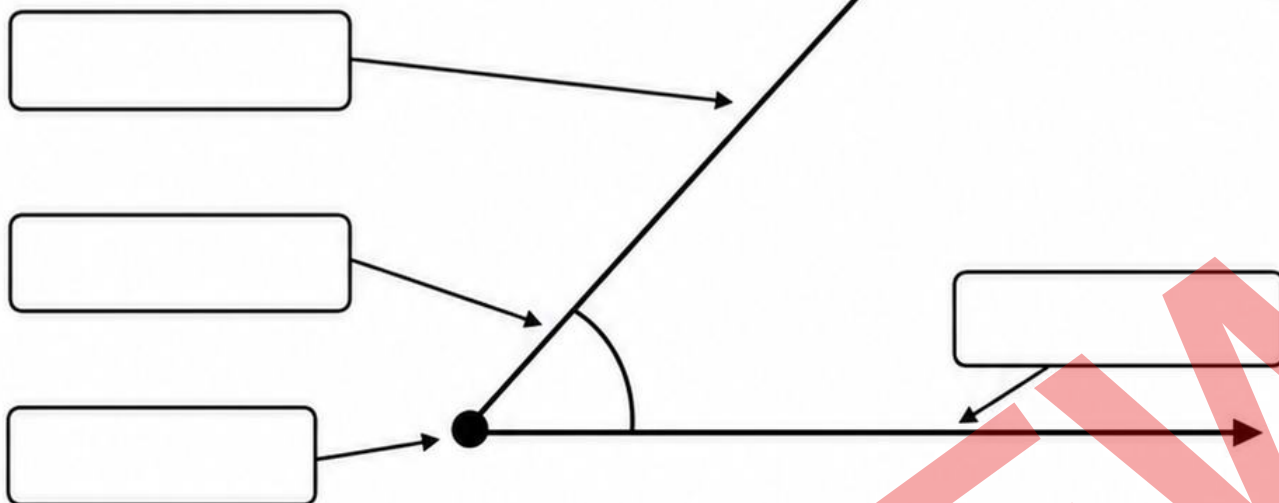
No. Angle size depends on the
amount of turn between the arms,
not the arm length.

ANGLE ADVENTURE CHECK - PAGE 1

Name: _____

1. Label the arm, vertex and angle.

/ 3

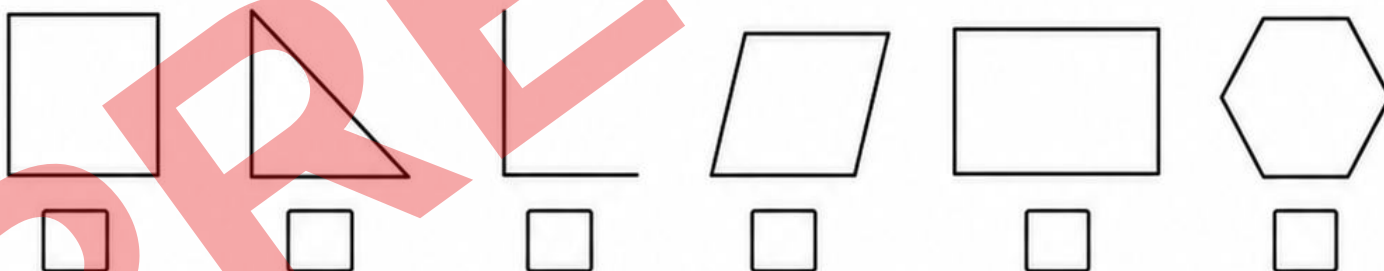


2. Complete the sentence: An angle measures the amount of _____
between two straight _____.

/ 2

3. Tick the pictures that show a right angle.

/ 3



4. Draw a right angle. Label the arms and vertex.

/ 2

Teacher marks: ____ / 10

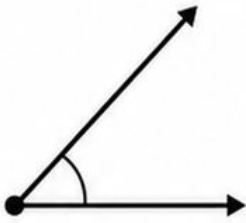
ANGLE ADVENTURE CHECK - PAGE 2

Name: _____

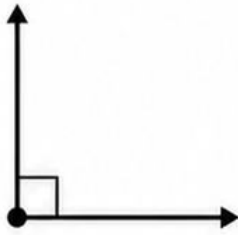
5. Order the angles from smallest turn to largest turn.

/ 4

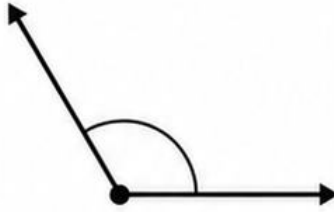
A



B



C



D



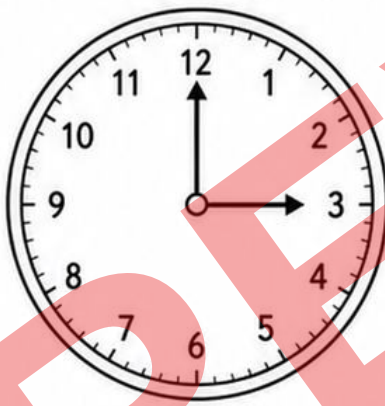
smallest

largest

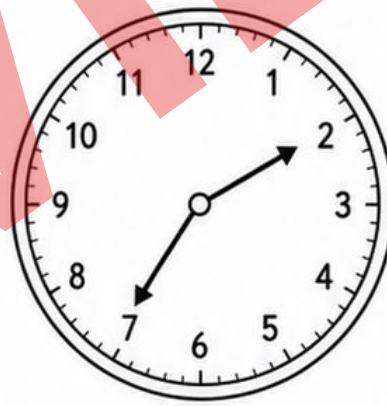
6. Which clock shows the larger angle? Explain how you know.

/ 3

Clock A



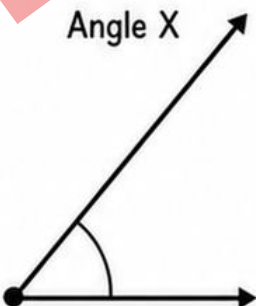
Clock B



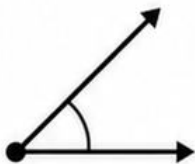
7. Mia says, 'The longer arms make the bigger angle.' Do you agree? Explain.

/ 3

Angle X



Angle Y



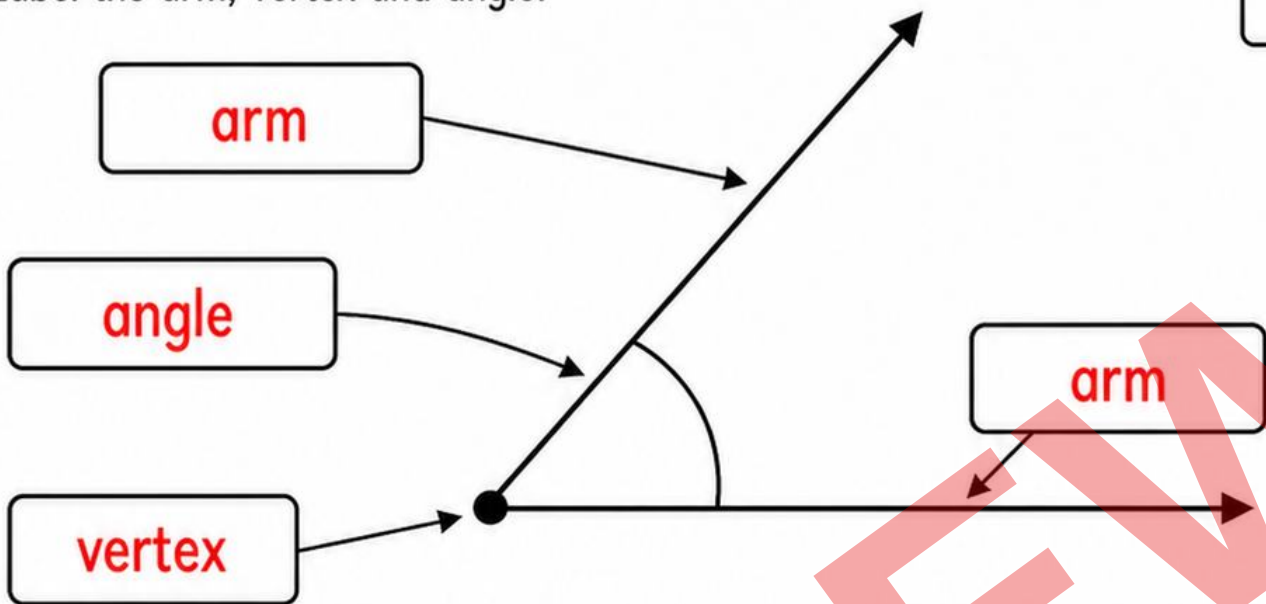
Teacher marks: ____ / 10

ANGLE ADVENTURE CHECK - PAGE 1

Name: ANSWERS

1. Label the arm, vertex and angle.

/ 3

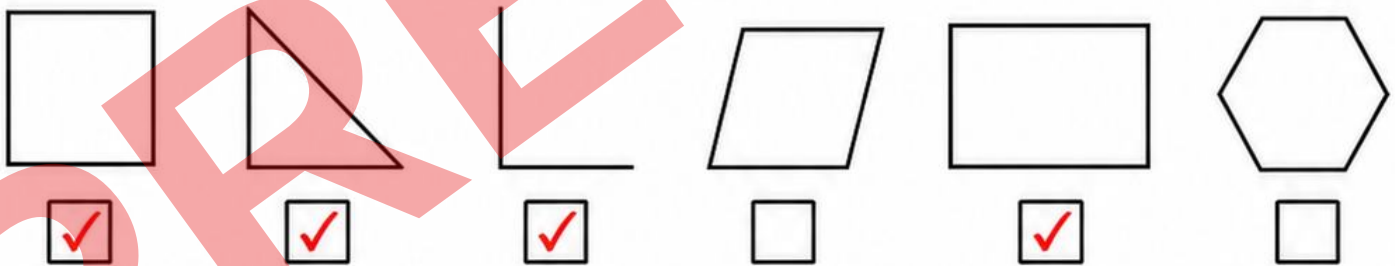


2. Complete the sentence: An angle measures the amount of turn between two straight arms.

/ 2

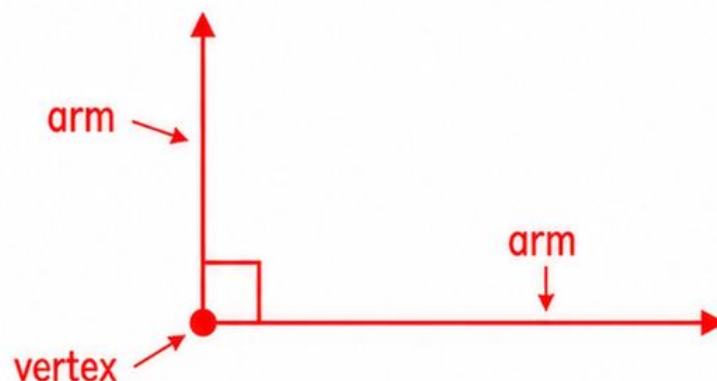
3. Tick the pictures that show a right angle.

/ 3



4. Draw a right angle. Label the arms and vertex.

/ 2

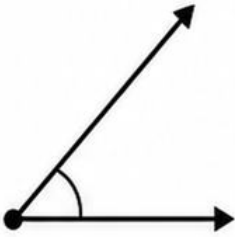


Teacher marks: ____ / 10

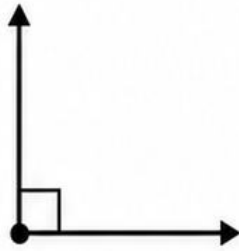
5. Order the angles from smallest turn to largest turn.

/ 4

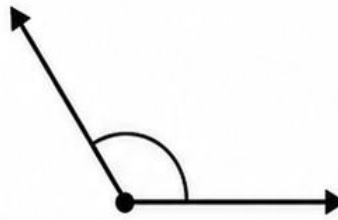
A



B



C



D



smallest

D

A

B

C

largest

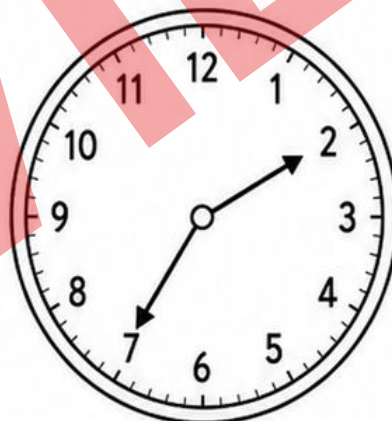
6. Which clock shows the larger angle? Explain how you know.

/ 3

Clock A



Clock B



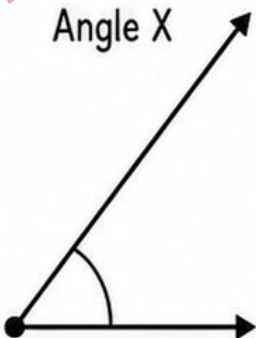
Clock B shows the larger angle because the turn

between the hands is greater.

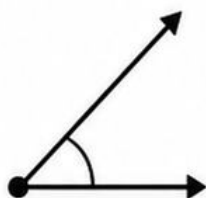
7. Mia says, 'The longer arms make the bigger angle.' Do you agree? Explain.

/ 3

Angle X



Angle Y



No. The arms are longer, but
angle size depends on the
amount of turn. These angles
are about the same size.

ANGLES - YEAR 3 RUBRIC

Name: _____

Criteria	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Identifies angles as turns	Needs help to see angles as turns. Often looks at the arms, not the turn.	Sometimes identifies angles by the amount of turn with support.	Identifies angles by the amount of turn most of the time.	Consistently identifies angles by the amount of turn.	Accurately identifies angles by the amount of turn in all situations.
Uses angle language	Uses limited or inaccurate angle language.	Uses some angle words (arm, vertex, turn, angle) with support.	Uses angle words (arm, vertex, turn, angle) correctly in simple situations.	Uses angle words accurately and describes angles clearly.	Uses angle words accurately and explains them clearly and confidently.
Recognises right angles	Needs help to recognise right angles.	Identifies right angles in simple cases with support.	Recognises right angles as quarter turns in most cases.	Consistently recognises right angles as quarter turns.	Identifies and explains right angles as quarter turns in all situations.
Compares and orders angles	Compares angles using arm length or is unsure.	Compares angles by the amount of turn with support.	Compares and orders angles by the amount of turn.	Accurately compares and orders angles by the amount of turn, not by arm length.	Accurately compares and orders angles in complex cases by the amount of turn and explains thinking clearly.

Notes: _____

Angles - Year 3



What Is an Angle?

An angle is the amount of turn between two straight arms.

Angles are made where straight lines meet or cross.



Arms and Vertex

The straight lines are called arms.

The point where the arms meet is called the vertex.

The turn between the arms is the angle.



Amount of Turn

When we compare angles, we compare the amount of turn.

A wider turn makes a larger angle.

A smaller turn makes a smaller angle.



Angles in Everyday Life

Angles appear in clocks, doors, scissors, roofs, books, road signs, corners and body poses.

Some angles stay fixed. Some angles move.



Fixed and Moving Angles

A desk corner is a fixed angle.

A door, peg or pair of scissors can make moving angles because the turn can change.



Right Angles

A right angle is a quarter turn.

We often mark a right angle with a small square in the corner.



Perpendicular Lines

Perpendicular lines meet to make right angles.

Window frames, page corners and some table corners can show perpendicular lines.



Finding Right Angles

Use a right-angle checker.

Place the square corner on the object.

If the arms line up, the object has a right angle.



Arm Length Trap

Longer arms do not make a bigger angle.

The amount of turn decides the angle size, not the arm length.



Comparing Angles

Look at the turn between the arms.

Ask: Which angle opens more?

Which angle opens less?



Clockface Turns

Clock hands can show angles.

At 3 o'clock, the hands make a right angle.

Other times can show smaller or larger turns.



Ordering Angles

To order angles, compare the turns from smallest to largest.

Do not be distracted by arm length.



Body Angles

Your elbows, knees and fingers can make angles.
Move your body to make a smaller, larger or matching angle.



Explaining Your Thinking

Use maths words when you explain:

arm, vertex, turn, right angle, quarter turn, bigger, smaller.



Angle Hunt Routine

Find an angle.

Mark the vertex.

Trace the arms.

Compare the turn.

Explain what you noticed.



This Week

Identify angles as turns.

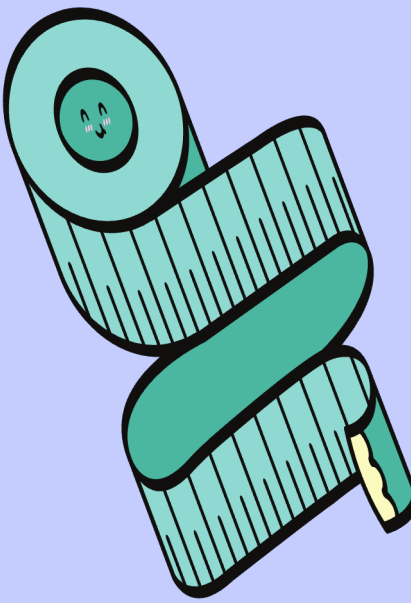
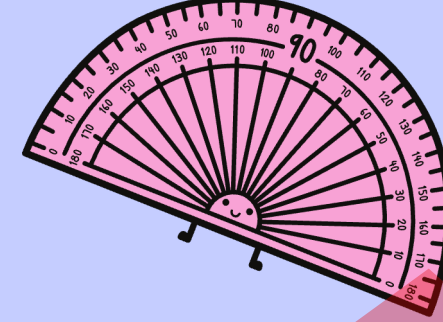
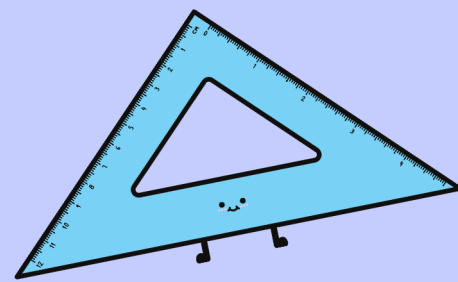
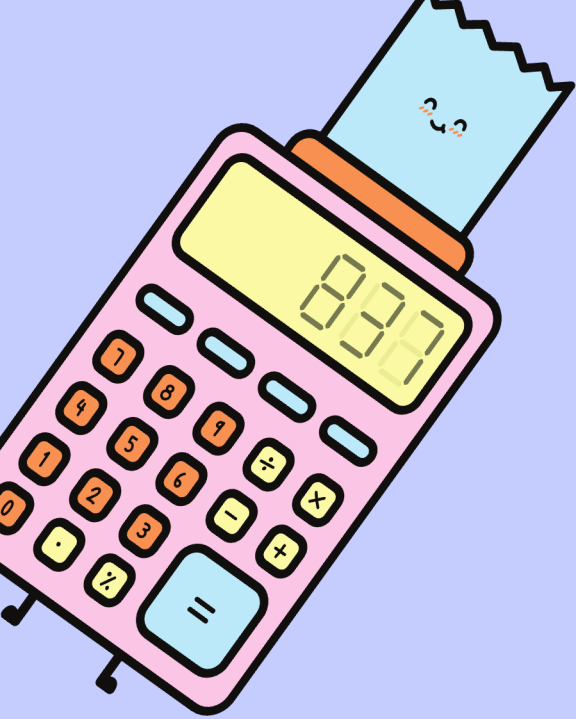
Label arms and vertices.

Find right angles.

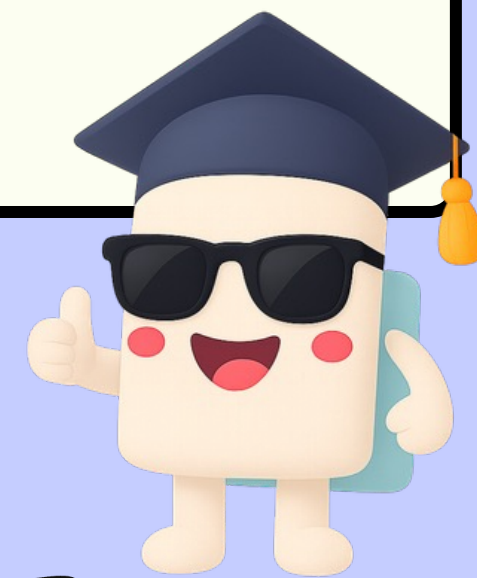
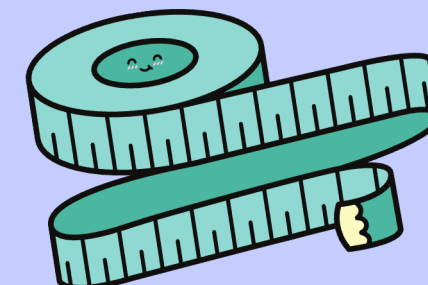
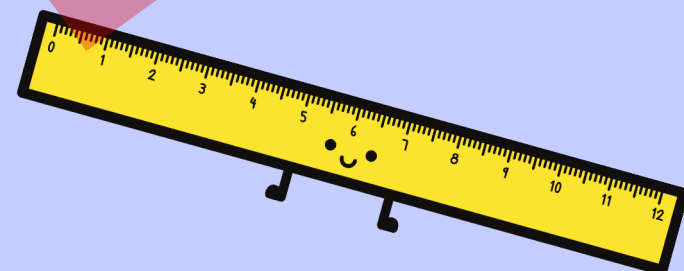
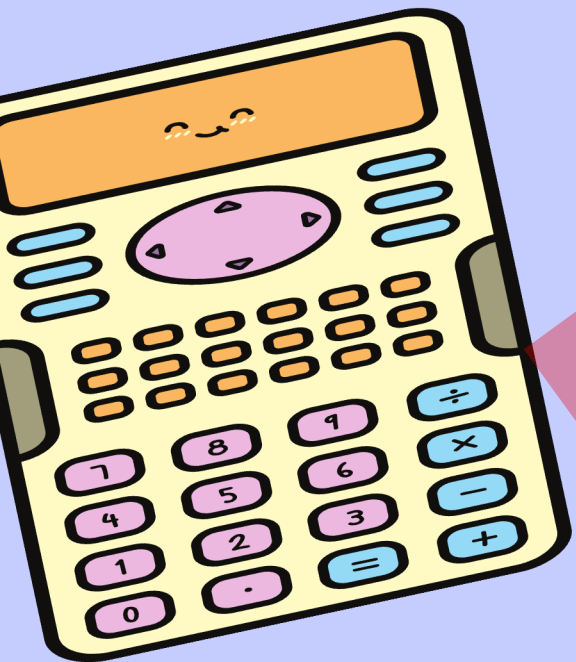
Compare and order angle sizes.

Explain why arm length does not decide angle size.





Well Done!



Angles - Year 3 Quiz



Question 1

What does an angle measure?

- A. the length of a line
- B. the amount of turn
- C. the colour of a shape
- D. the number of sides



Answer 1

B. the amount of turn



Question 2

True or false?

The straight lines that make an angle are called arms.



Answer 2

True.



Question 3

What is the point where the two arms of an angle meet called?



Answer 3

The vertex.



Question 4

Which description matches a right angle?

- A. a half turn
- B. a quarter turn
- C. a full turn
- D. no turn



Answer 4

B. a quarter turn



Question 5

True or false?

Longer arms always make a bigger angle.



Answer 5

False. Angle size depends on the amount of turn.



Question 6

Name one classroom object that may have a right angle.



Answer 6

Any sensible answer, such as a desk corner, book corner, window frame or door frame.



Question 7

At 3 o'clock, what kind of angle do the clock hands show?

- A. a small angle
- B. a right angle
- C. a straight angle
- D. no angle



Answer 7

B. a right angle



Question 8

Which pair of lines usually makes right angles?

- A. curved lines
- B. parallel lines
- C. perpendicular lines
- D. wavy lines



Answer 8

C. perpendicular lines



Question 9

True or false?

A door can show a moving angle because its turn can change.



Answer q

True.



Question 10

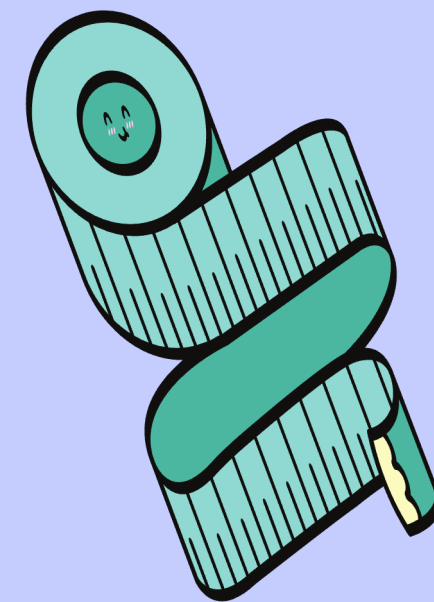
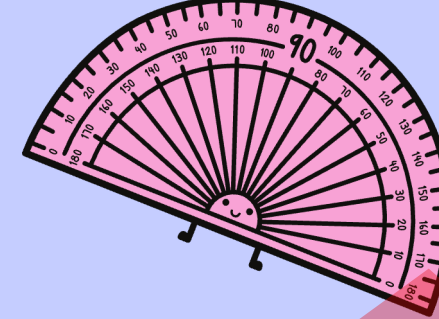
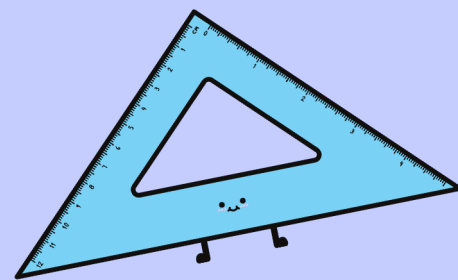
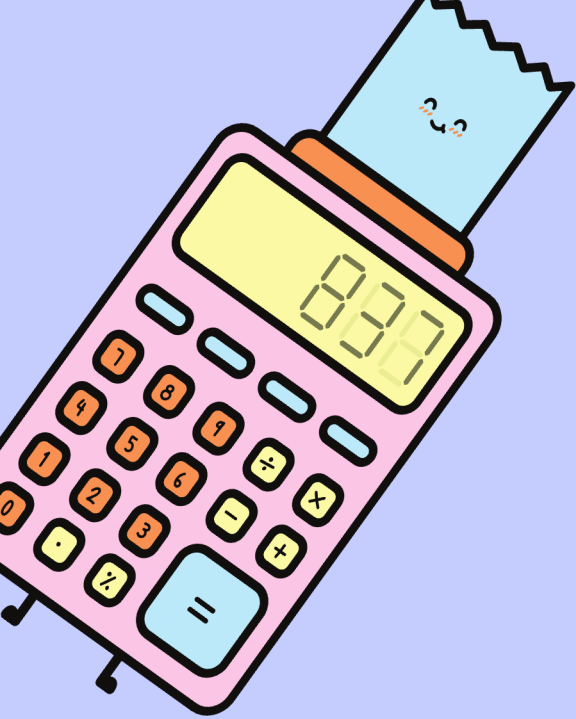
How can you compare two angles?



Answer 10

Compare the amount of turn between the arms. The larger turn makes the larger angle.





Great Work!

