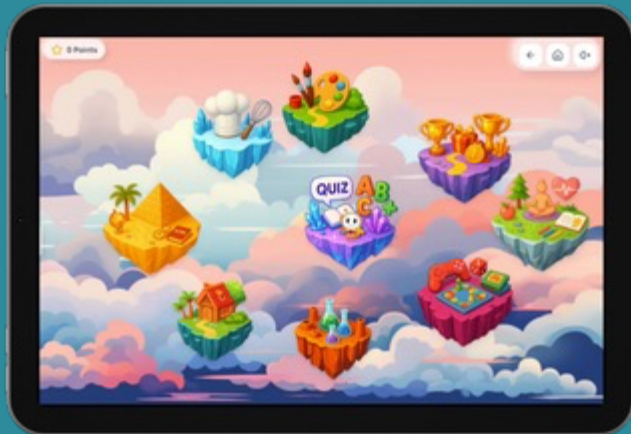




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Terrific Turns Year 2

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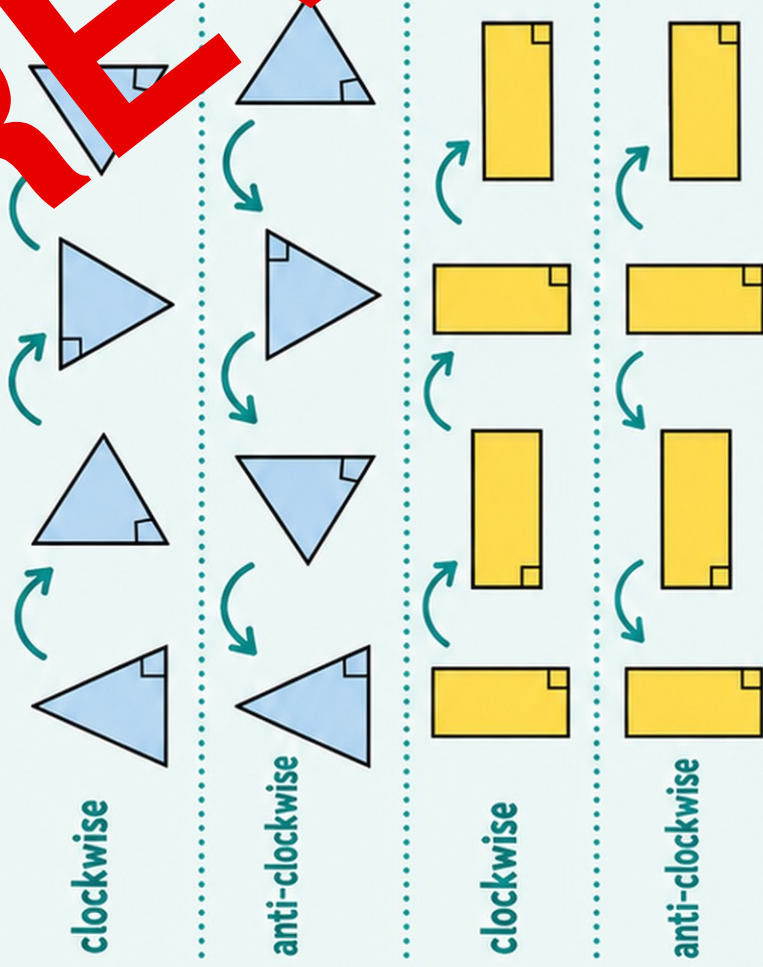


Half and Quarter Turns

Use turn words to describe how shapes move.

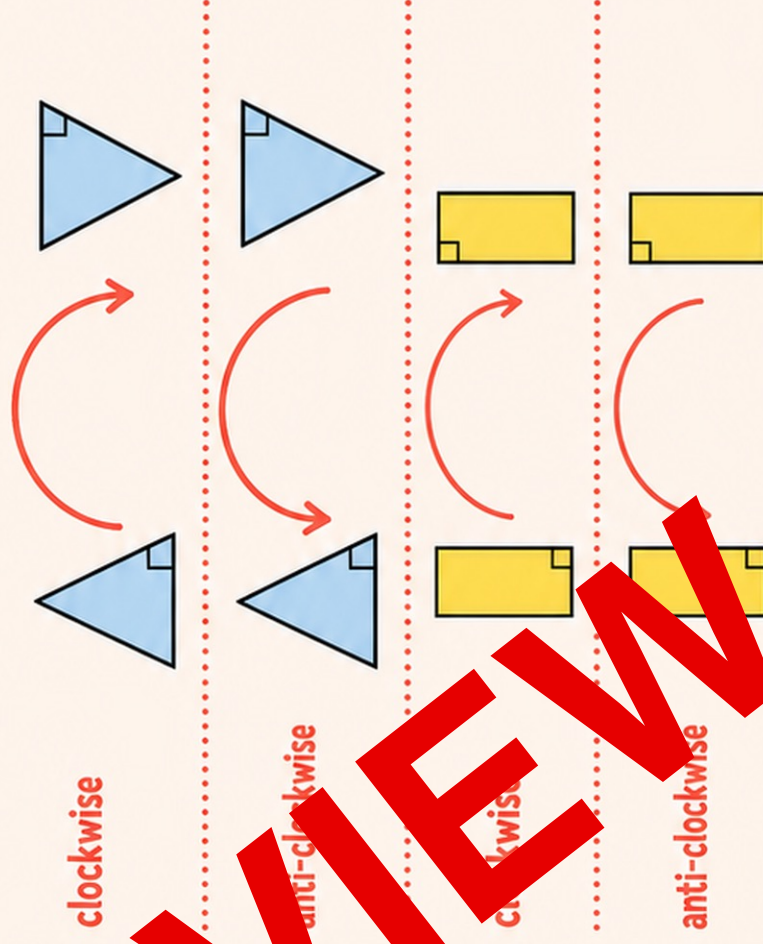
Quarter turn

1 right angle = 90 degrees



Half turn

2 right angles = 180 degrees



★ Say the size of the turn and the direction.



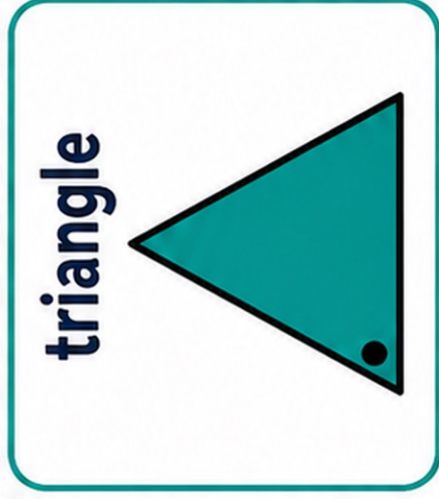
6 Turn and Tell Activity Cards



Choose a shape card, a turn card, and a direction card. Make the turn. Tell your partner what changed.



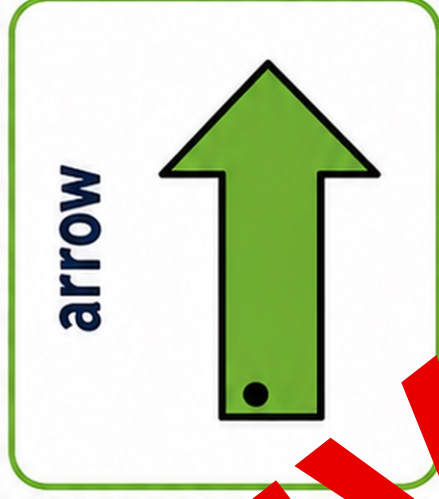
Choose a shape card, a turn card, and a direction card. Make the turn. Tell your partner what changed.



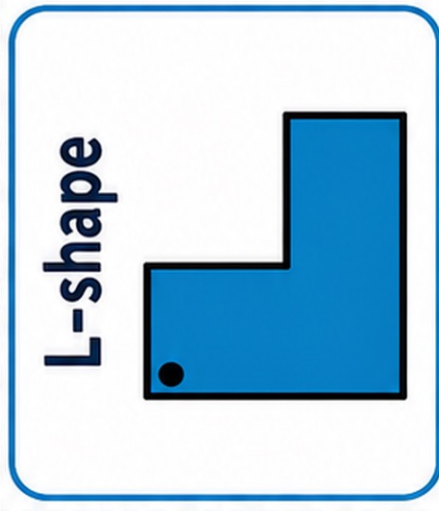
triangle



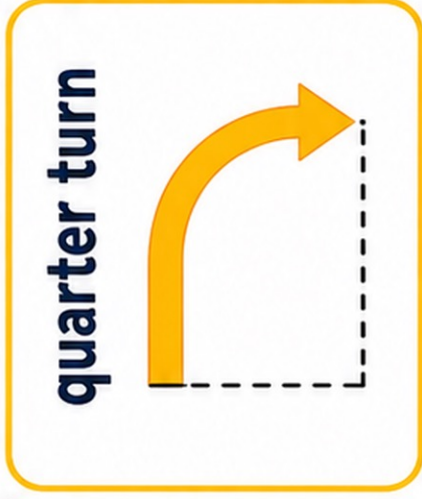
rectangle



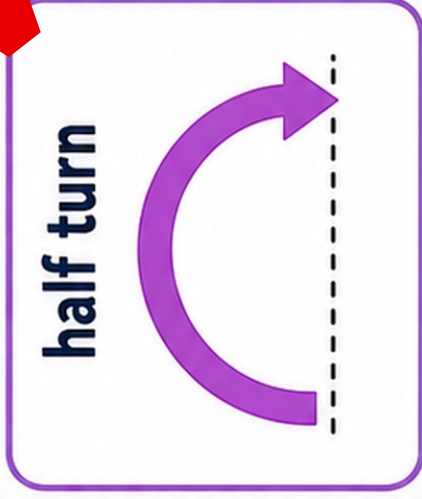
arrow



L-shape



quarter turn



half turn



clockwise



anti-clockwise



My shape made a _____ turn _____.

Clockwise Quest Game

Roll a dice. Move your counter. Say the turn shown on the space. If you can draw it, move ahead 1 space.



quarter clockwise 	half anti-clockwise 	quarter anti-clockwise 	draw it	half clockwise 	swap direction
half anti-clockwise 	quarter clockwise 	quarter anti-clockwise 	draw it	half clockwise 	draw it
quarter clockwise 	swap direction	quarter anti-clockwise 	half anti-clockwise 	draw it	
quarter anti-clockwise 	swap direction	half clockwise 	quarter clockwise 	half clockwise 	



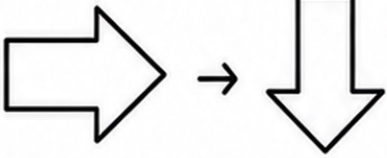
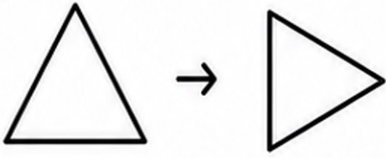
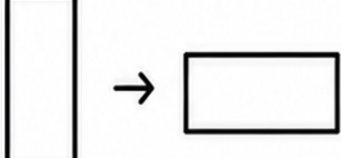
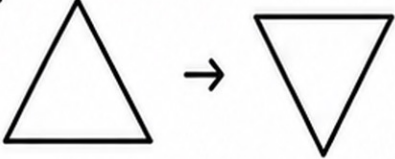
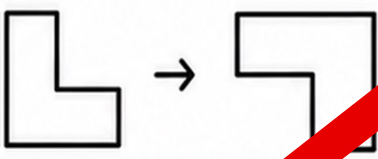
Use a pencil and scrap paper to show tricky turns.



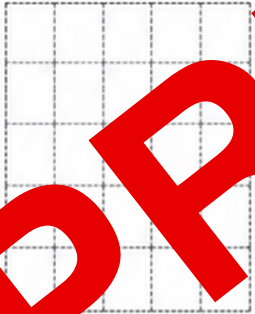
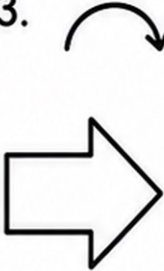
Name: _____

Quarter Turn Sketches

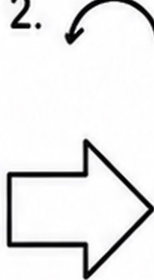
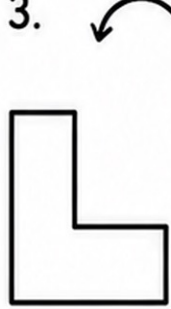
1. Circle each shape that has made a quarter turn.

1. 	2. 	3. 
4. 	5. 	6. 

2. Draw the shape after a quarter turn clockwise.

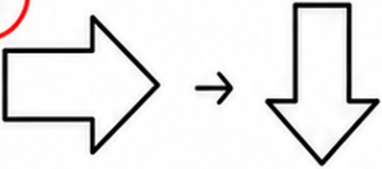
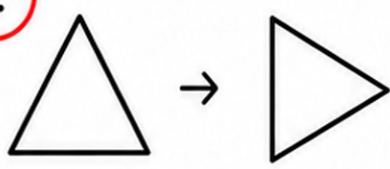
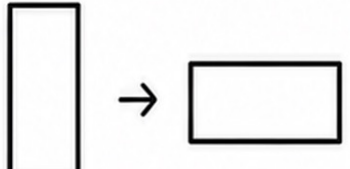
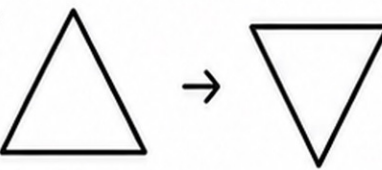
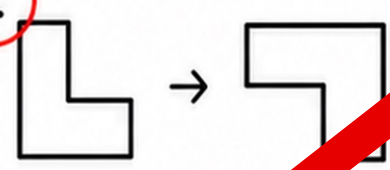
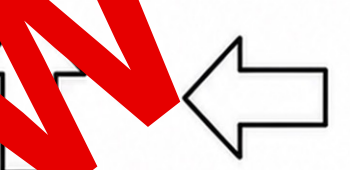
1.  	2.  	3.  
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3. Draw the shape after a quarter turn anti-clockwise.

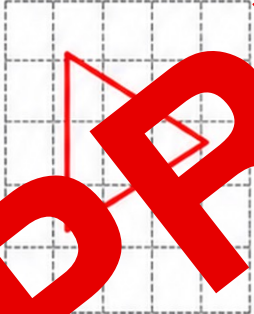
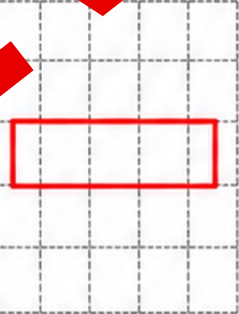
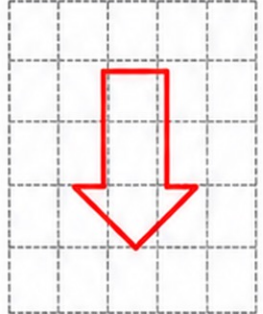
1.  	2.  	3.  
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Quarter Turn Sketches

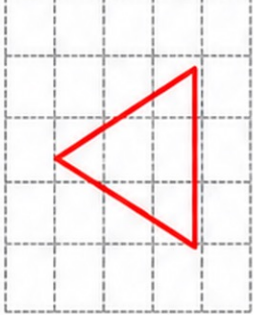
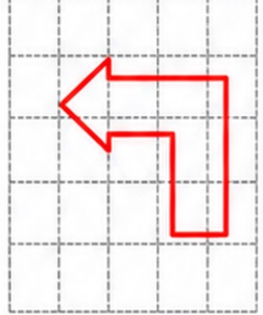
1. Circle each shape that has made a quarter turn.

1. 	2. 	3. 
4. 	5. 	6. 

2. Draw the shape after a quarter turn clockwise.

1.  	2.  	3.  
--	--	--

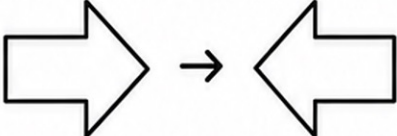
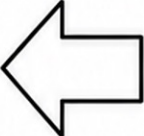
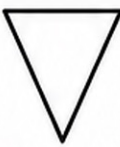
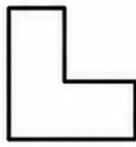
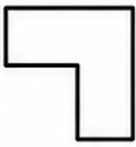
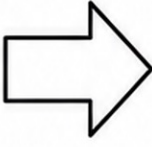
3. Draw the shape after a quarter turn anti-clockwise.

1.  	2.  	3.  
--	--	--

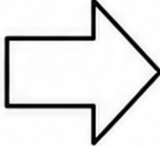
Name: _____

☆ Half Turn Heroes ☆

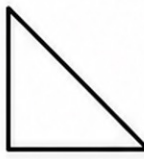
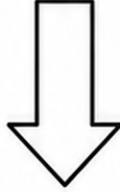
1. Tick each shape that has made a half turn.

1.  →  ☐	2.  →  ☐	3.  →  ☐
4.  →  ☐	5.  →  ☐	6.  →  ☐

2. Draw the shape after a half turn clockwise.

1.  	2.  	3.  
--	--	--

3. Draw the shape after a half turn anti-clockwise.

1.  	2.  	3.  
--	--	--



A half turn is 180 degrees.



Name: ANSWERS



Half Turn Heroes



1. Tick each shape that has made a half turn.

1. ☒	2. ☒	3. ☐
4. ☒	5. ☐	6. ☐

2. Draw the shape after a half turn clockwise.

1. 	2. 	3.
------------	------------	------------

3. Draw the shape after a half turn anti-clockwise.

1. 	2. 	3.
------------	------------	------------



A half turn is 180 degrees.



Clockwise or Anti-clockwise?

Name: _____



1. Write clockwise or anti-clockwise under each turn.

1. _____	2. _____	3. _____
4. _____	5. _____	6. _____

2. Complete each sentence.

A.	The triangle made a quarter turn _____.
B.	The arrow made a half turn _____.
C.	The rectangle made a quarter turn _____.

3. Draw an arrow to show the direction.

clockwise	anti-clockwise	your choice



Clockwise or Anti-clockwise?



1. Write clockwise or anti-clockwise under each turn.

1. <u>clockwise</u>	2. <u>anti-clockwise</u>	3. <u>clockwise</u>
4. <u>anti-clockwise</u>	5. <u>clockwise</u>	6. <u>anti-clockwise</u>

2. Complete each sentence.

A.	The triangle made a quarter turn <u>clockwise</u> .
B.	The arrow made a half turn <u>clockwise</u> .
C.	The rectangle made a quarter turn <u>anti-clockwise</u> .

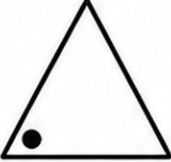
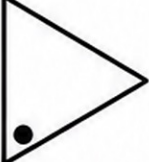
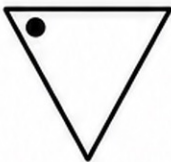
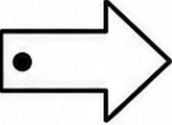
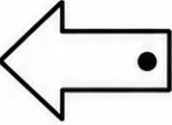
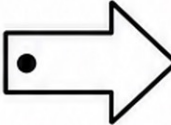
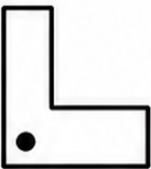
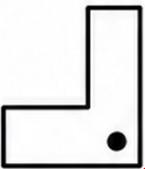
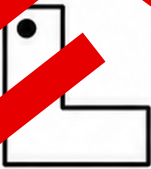
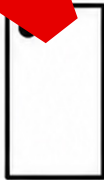
3. Draw an arrow to show the direction.

clockwise	anti-clockwise	your choice
------------------	-----------------------	--------------------

Name: _____

☆ Turn Pattern Predictor ☆

1. Draw the missing shape in each turn pattern.

A					
B					
C					
D					

2. Write quarter turn or half turn.

A. _____	B. _____
C. _____	D. _____

3. Make your own turn pattern.

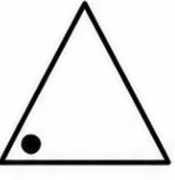
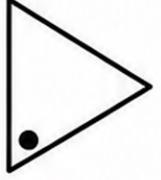
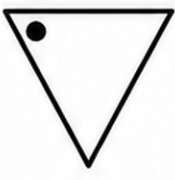
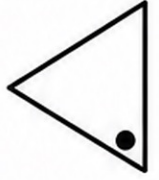
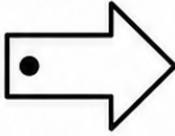
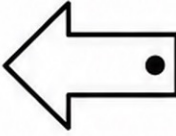
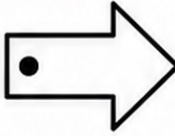
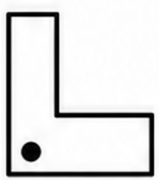
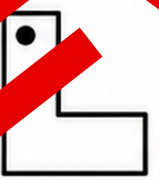
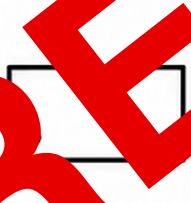
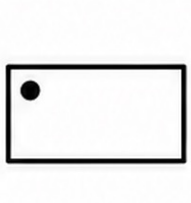
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My pattern uses: _____

Name: ANSWERS

Turn Pattern Predictor

1. Draw the missing shape in each turn pattern.

A					
B					
C					
D					

2. Write quarter turn or half turn.

A. quarter turn B. half turn
C. quarter turn D. quarter turn

3. Make your own turn pattern.

--	--	--	--	--

Answers may vary.

My pattern uses: quarter turn or half turn

Name: _____

☆ Shape Turner Challenge ☆

1. Match each turn word to a picture.

A.	B.	C.	D.
quarter turn	half turn	clockwise	anti-clockwise

2. Draw the final shape.

Start	Turn	Draw
1.	quarter turn clockwise	
2.	half turn clockwise	
3.	quarter turn anti-clockwise	
4.	half turn anti-clockwise	

3. Explain one turn using maths words.

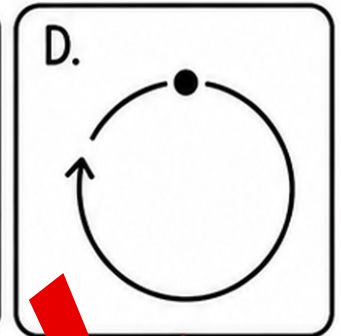
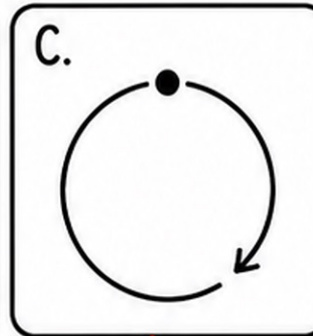
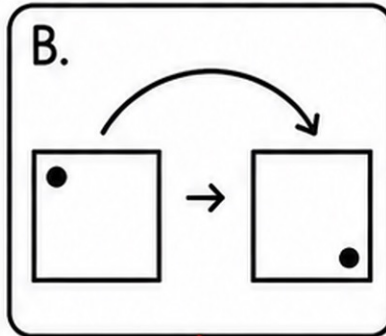
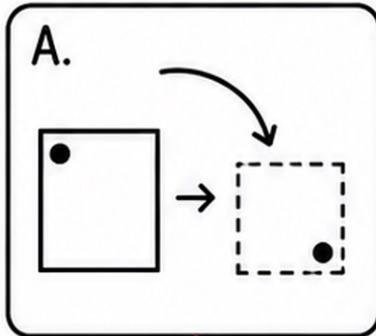
I know it is a _____ turn because _____.



Shape Turner Challenge



1. Match each turn word to a picture.



quarter turn

half turn

clockwise

anti-clockwise

2. Draw the final shape.

Start	Turn	Draw
1.	quarter turn clockwise	
2.	half turn clockwise	
3.	quarter turn anti-clockwise	
4.	half turn anti-clockwise	

3. Explain one turn using maths words.

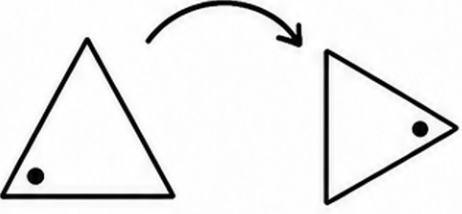
I know it is a quarter turn because _____.

Name: _____

☆ Terrific Turns Check-in ☆

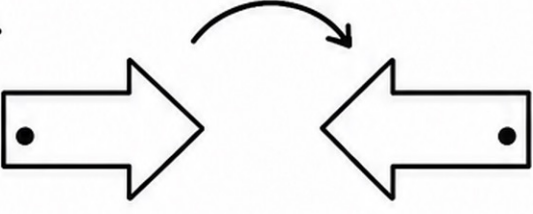
1. Circle the correct turn size.

A.



☐ quarter turn ☐ half turn

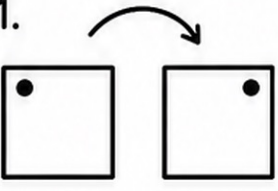
B.



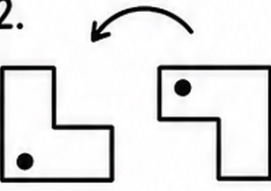
☐ quarter turn ☐ half turn

2. Write the direction of each turn.

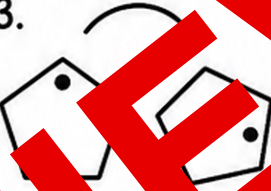
1.

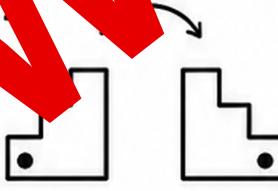


2.

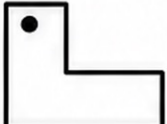


3.

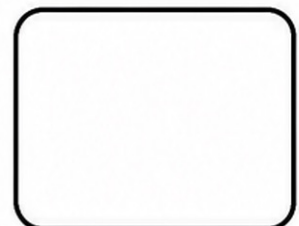
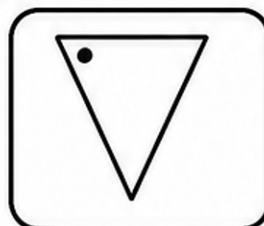
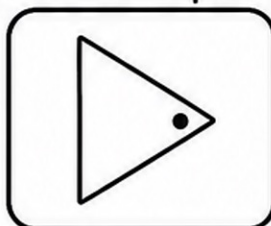
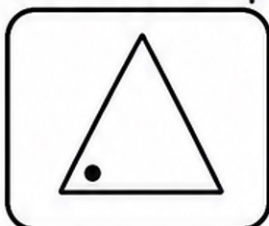




3. Draw the final shape.

Start	Turn	Draw
1. 	quarter turn clockwise	
2. 	half turn clockwise	
3. 	quarter turn anti-clockwise	

4. Continue the pattern and explain it.

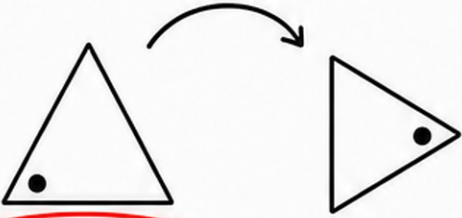


The pattern uses _____ turns.

☆ Terrific Turns Check-in ☆

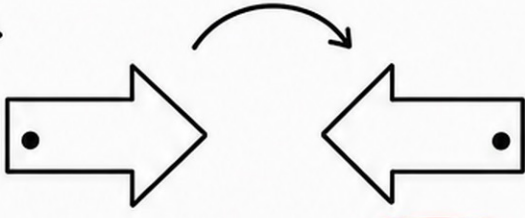
1. Circle the correct turn size.

A.



☒ quarter turn ☐ half turn

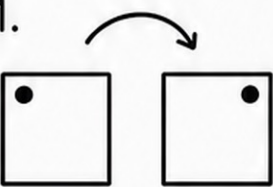
B.



☐ quarter turn ☒ half turn

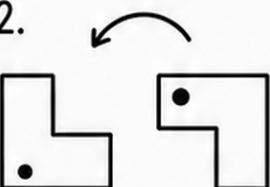
2. Write the direction of each turn.

1.



clockwise

2.



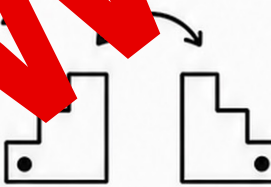
anti-clockwise

3.



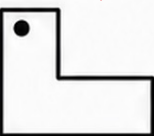
clockwise

4.

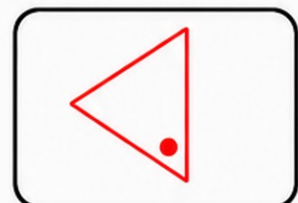
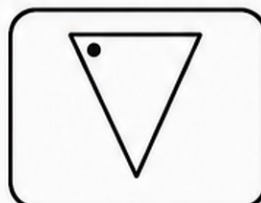
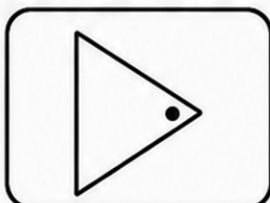
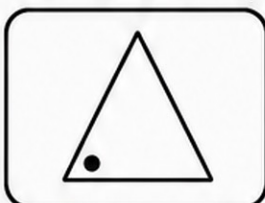


anti-clockwise

3. Draw the final shape.

Start	Turn	Draw
1. 	quarter turn clockwise	
2. 	half turn clockwise	
3. 	quarter turn anti-clockwise	

4. Continue the pattern and explain it.



The pattern uses quarter turns.

Terrific Turns Year 2 Rubric

Name: _____

CRITERIA	BEGINNING	DEVELOPING	ACHIEVING	CONFIDENT	EXCEEDING
Turn size	Needs help to name turns	Names half and quarter turns	Names half and quarter turns	Chooses the correct turn size	Explains turn size clearly
Direction language	Needs support with direction	Uses some direction words	Uses clockwise and anti-clockwise	Matches direction to turns	Explains direction accurately
Drawing turns	Copies simple turns with help	Draws some turns	Draws half and quarter turns	Draws turns accurately	Draws and checks orientation
Turn patterns	Needs help to see patterns	Continues simple patterns	Continues turn patterns	Names the pattern rule	Creates and explains a pattern
Maths explanation	Uses everyday words	Uses some maths words	Uses turn words correctly	Explains with clear maths words	Justifies using examples

Terrific Turns Year 2

PREVIEW



Learning Goal

We can describe and represent half turns and quarter turns.

PREVIEW



What Is A Turn?

A turn changes the direction a shape faces.

The shape keeps its size and shape.



Quarter Turns

A quarter turn is one right angle.
It is 90 degrees around a circle.



Clockwise

Clockwise turns move the same way as clock hands.

Use arrows to help name the direction.



Anti-clockwise

Anti-clockwise turns move the opposite way to clock hands.

The shape still keeps its size.



Half Turns

A half turn is two right angles.
It is 180 degrees or halfway around.



Use A Marker

A dot on a shape helps us track where each corner moves during a turn.



Draw The Turn

Look at the star shape.

Name the turn size and direction.

Then sketch the final shape.



Turn Patterns

Some patterns repeat quarter turns.

Some patterns repeat half turns.

Look for the rule.



Say It Clearly

Use both parts of the description:
quarter or half turn, then clockwise or anti-clockwise.



Partner Check

Show a turn with your hands.

Ask your partner to name the turn and direction.



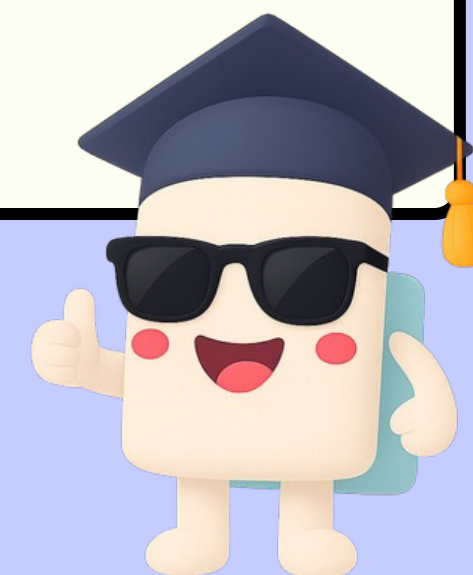
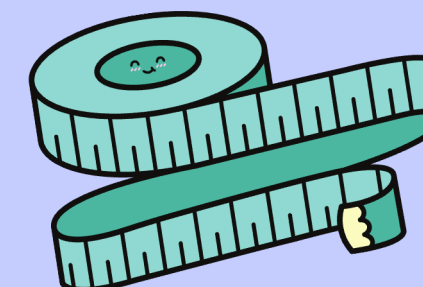
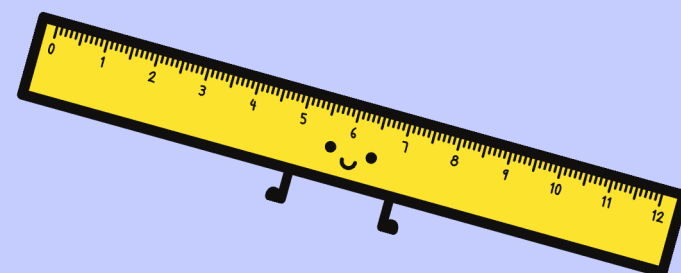
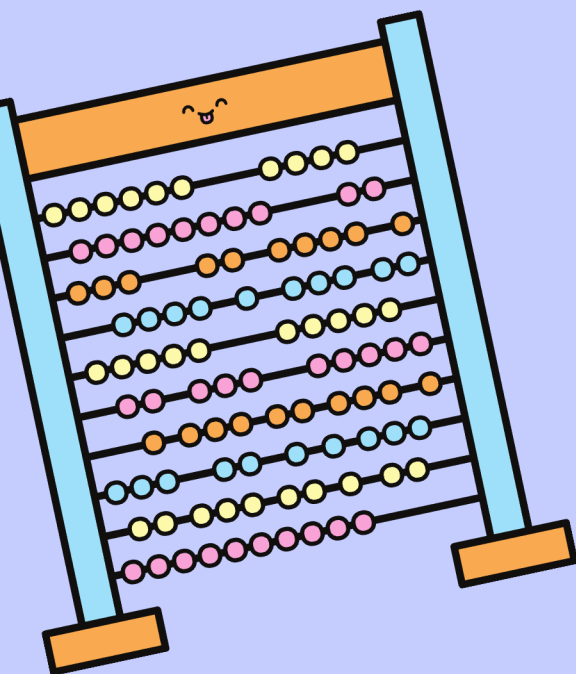
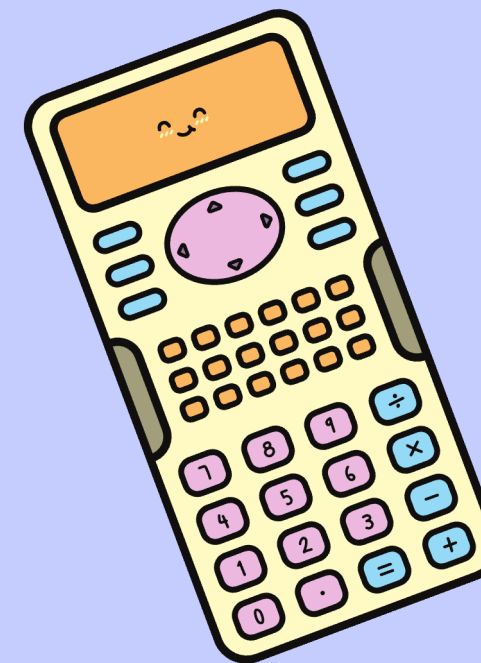
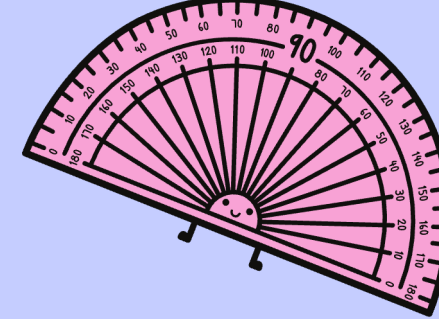
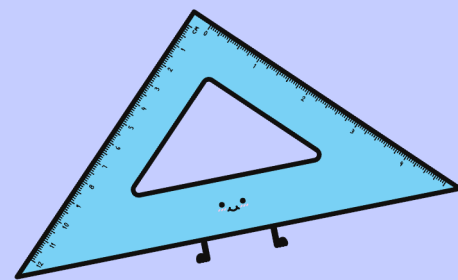
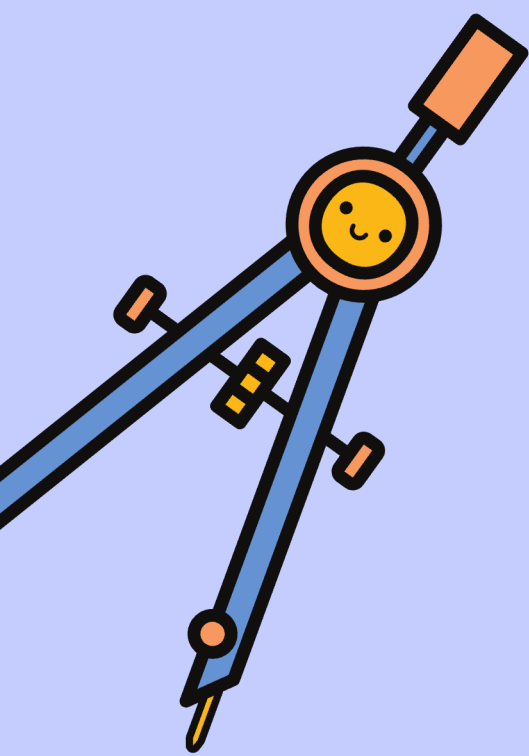
Review

Can you identify the turn size?

Can you name the direction?

Can you continue a turn pattern?





Well Done!

PREVIEW

Terrific Turns

Quiz

PREVIEW



Question 1

Question

A quarter turn is:

A. 45 degrees

B. 90 degrees

C. 180 degrees

D. 360 degrees



Answer 1

PREVIEW

Answer 1
E 90 degrees



Question 2

Question 2

True or false?

A horizontal line is 180 degrees.



Answer 2

PREVIEW

Answer 2

True.



Question 3

Question 3

What direction move the same way as clock hands?



Answer 3

PREVIEW

Answer 3
clockwise.



Question 4

Question

Which description is complete?

A. turn

B. clockwise

C. quarter turn clockwise

D. shape turn



Answer 4

PREVIEW

Answer 4

Counter turn clockwise



Question 5

Question 5

true or false?

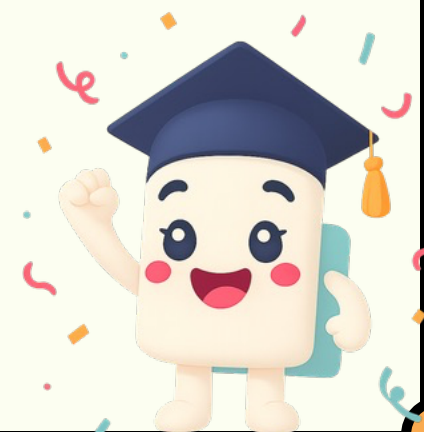
A shape changes size when it makes a turn.



Answer 5

Answer 5

False. The direction changes, but the size stays the same.



Question 6

Question

An arrow points right. After a half turn, which way does it point?

A. right

B. left

C. up

D. down



Answer 6

PREVIEW

Answer 6

P. left



Question 7

Name the opposite direction to clockwise.



Answer 7

PREVIEW

Answer 7
Anti-clockwise.



Question 8

Question 8

A triangle points up, then right, then down. What kind of turn pattern is this?



Answer 8

PREVIEW

Answer 8

A quarter turn pattern.



Question 9

Question 9

true or false?

A half turn is the same as two quarter turns.



Answer 9

PREVIEW

Answer 9

True.



Question 10

Question 10

Write one complete turn description.



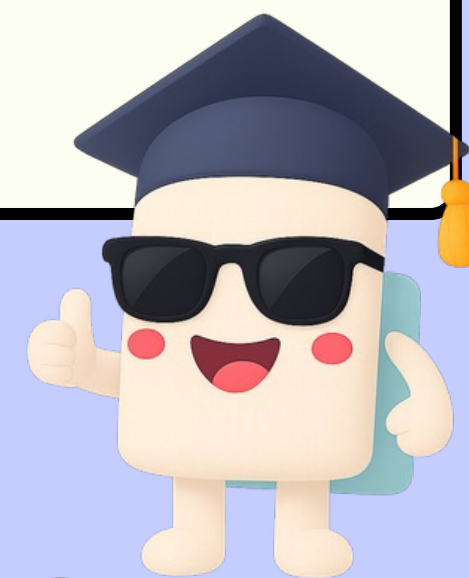
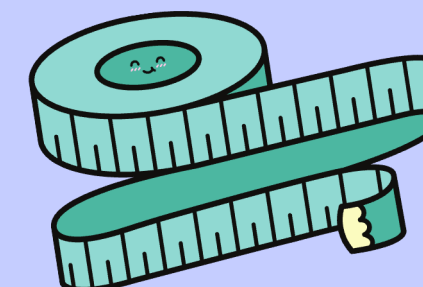
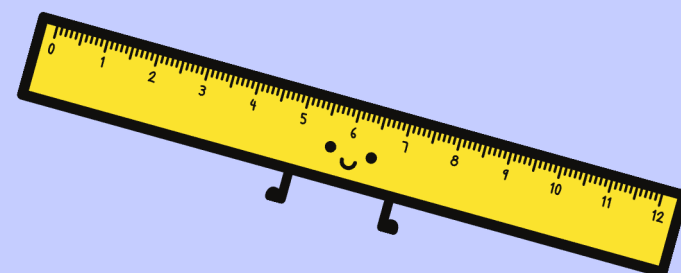
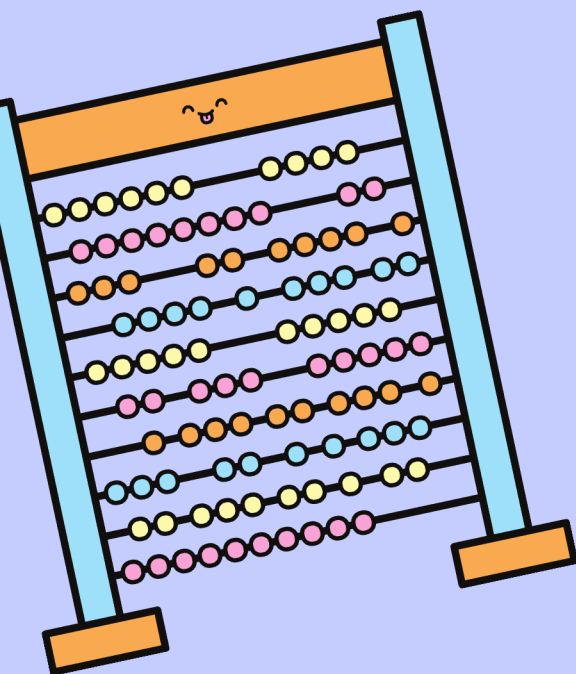
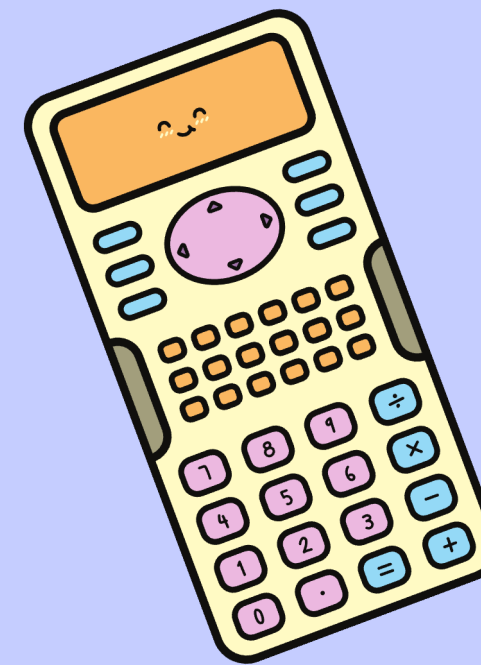
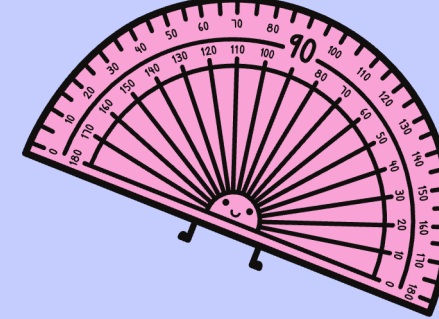
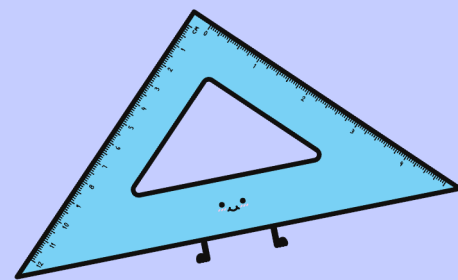
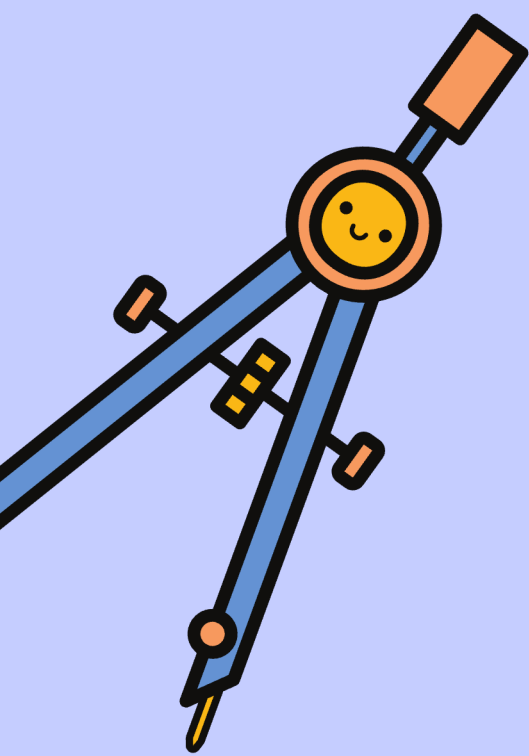
Answer 10

Answer 10

Example: quarter turn anti-clockwise.

Other complete turn descriptions may also be correct.





Well Done!

PREVIEW