Coundon Primary School

Year 3

Maths Home Learning Pack

Week Commencing 15.06.20

*Although we have uploaded the relevant worksheets, there is no need to print them. our child can work directly from the screen.

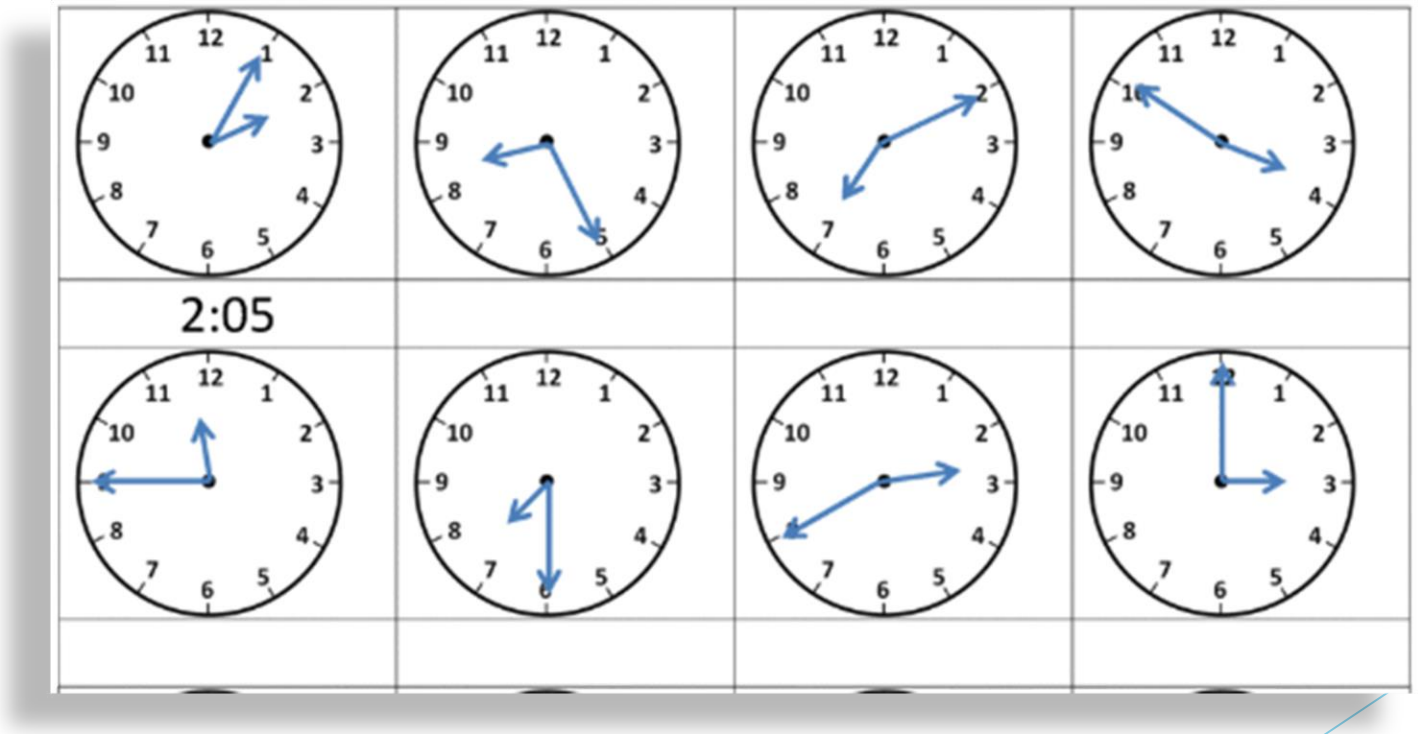
Lesson 1

Key Skills:

I understand full, half turn and quarter turns.
I know what North, South, East and West are.

Warm-up

What time do the clocks show. Write the answers in your book.



Warm-up

Answers

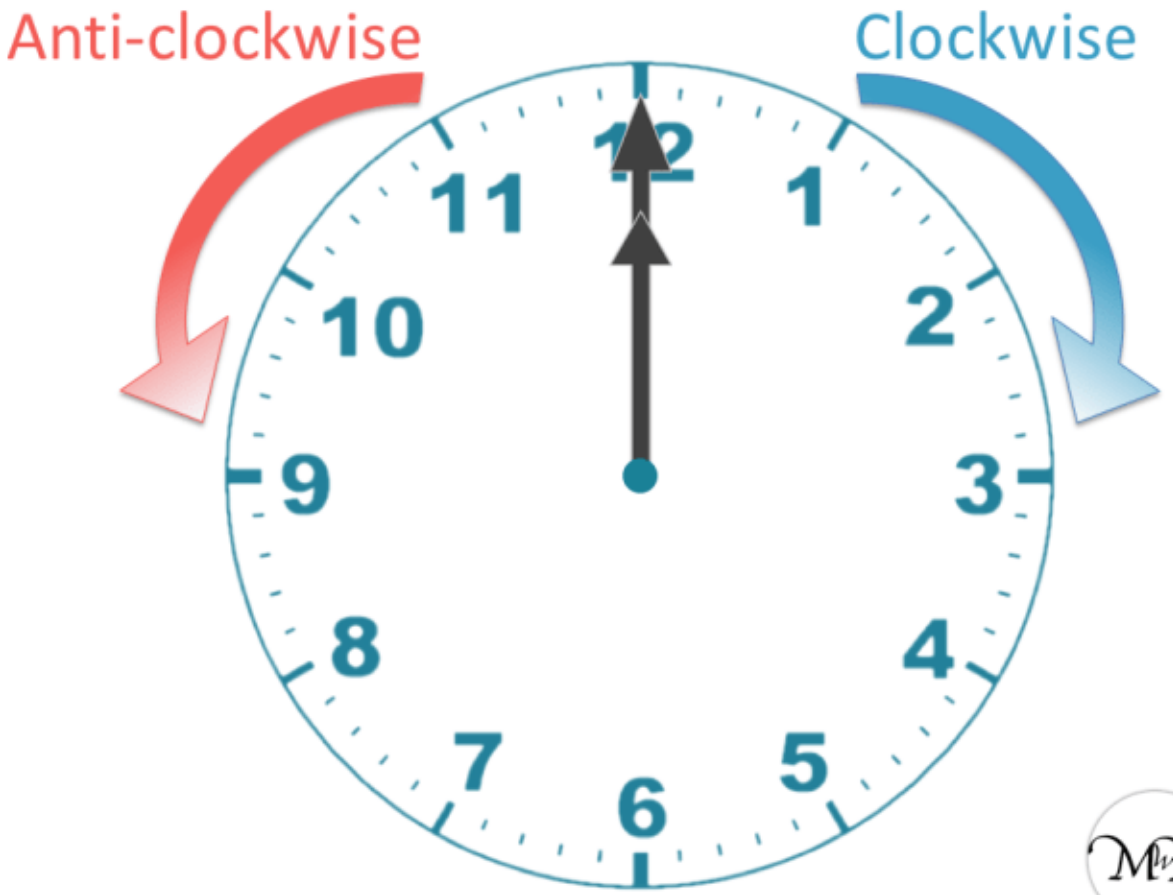
			
2:05	8:25	7:10	3:50
			
11:45	7:30	2:40	3:00

How did you do?

Key Skills:

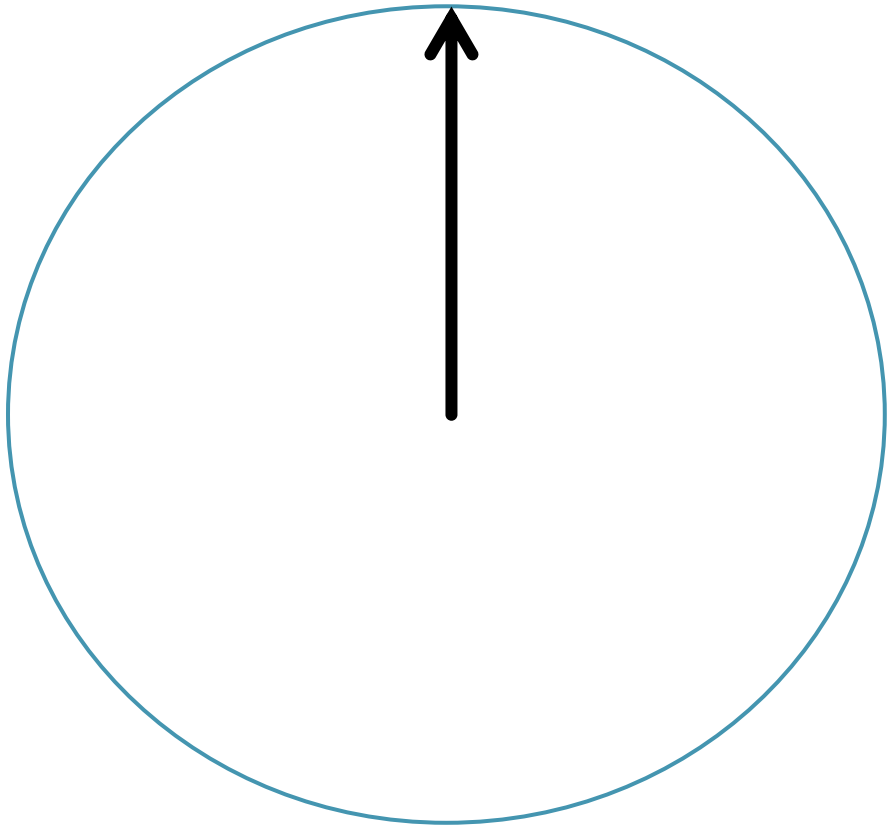
I understand full, half turn and quarter turns.
I know what North, South, East and West are.

You can make clockwise or anti-clockwise turns.

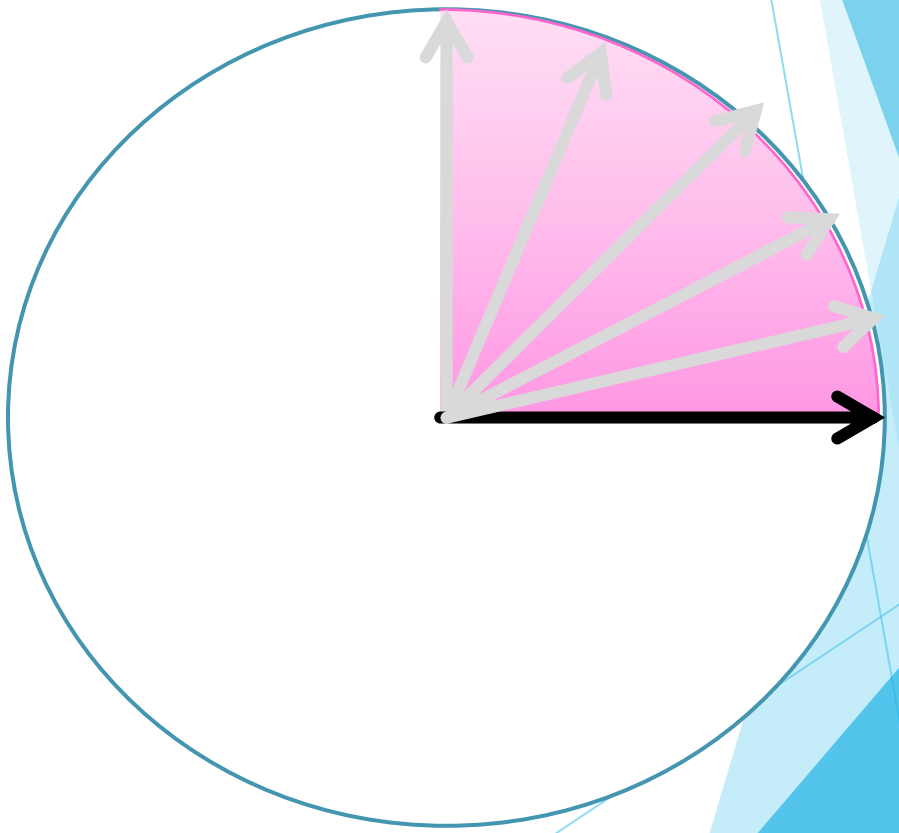


Learning

This is a quarter turn. A quarter of the circle has been shaded. The arrow has turned clockwise.



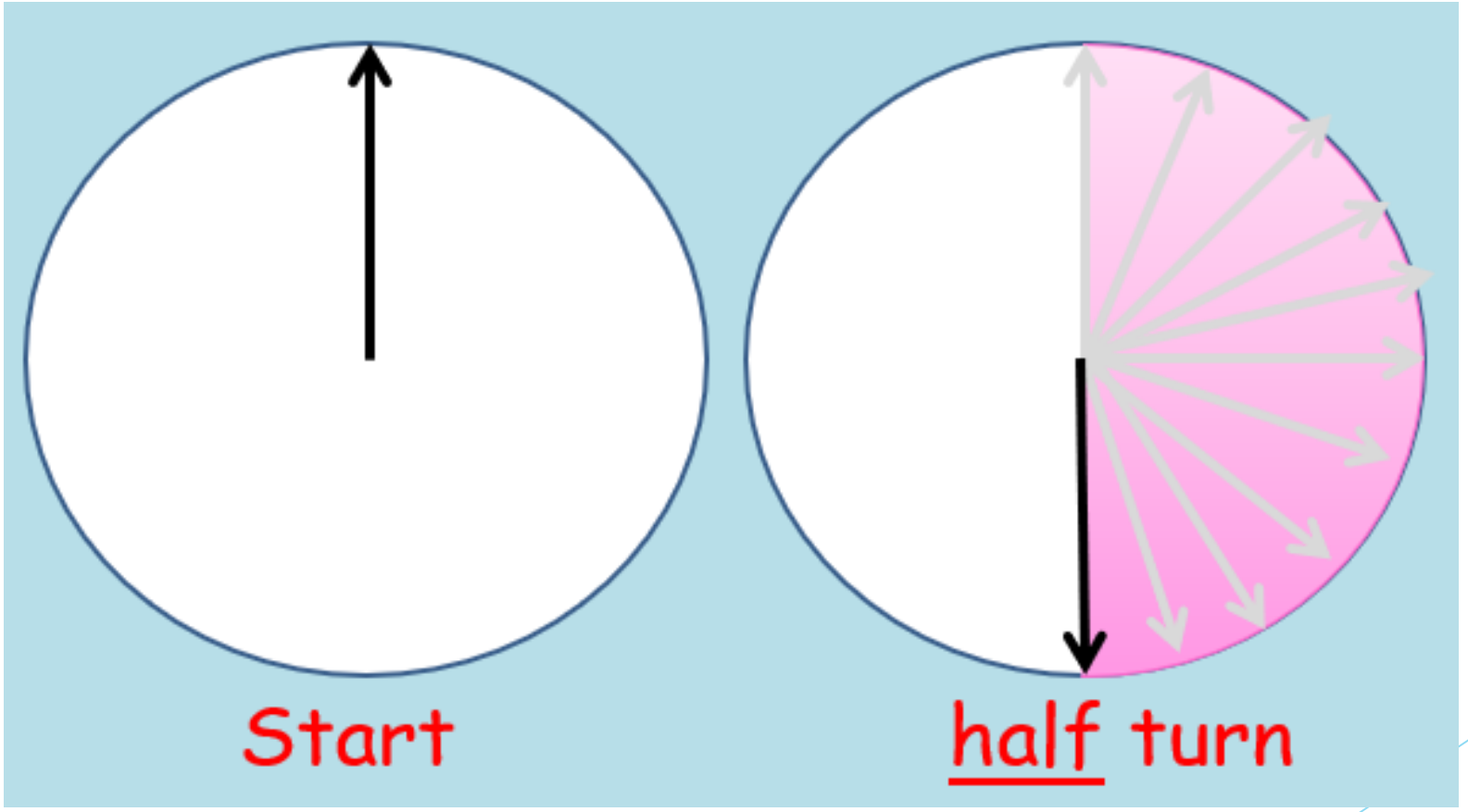
Start



Finish

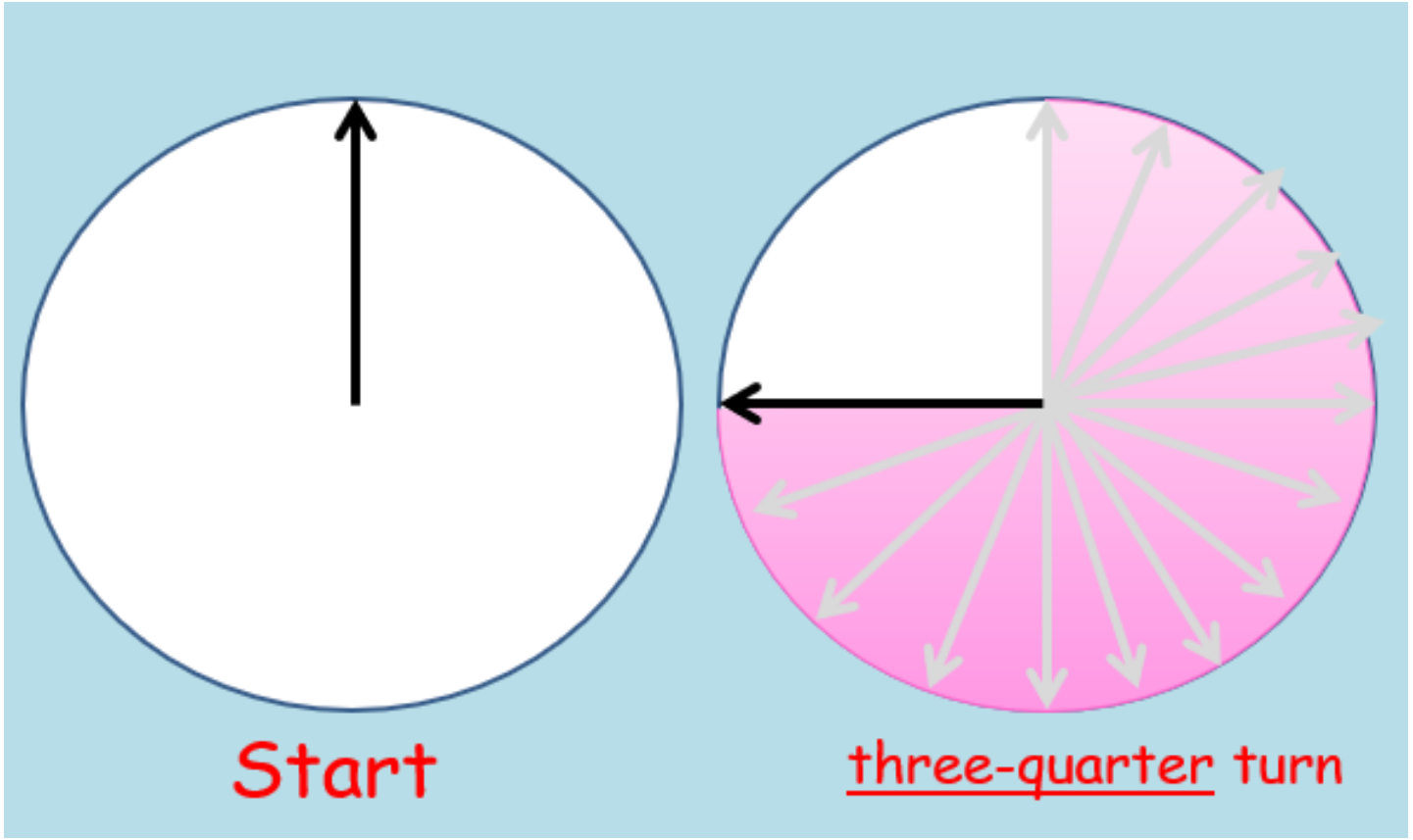
Learning

This is a half turn. Half of the circle has been shaded. The arrow has turned clockwise.



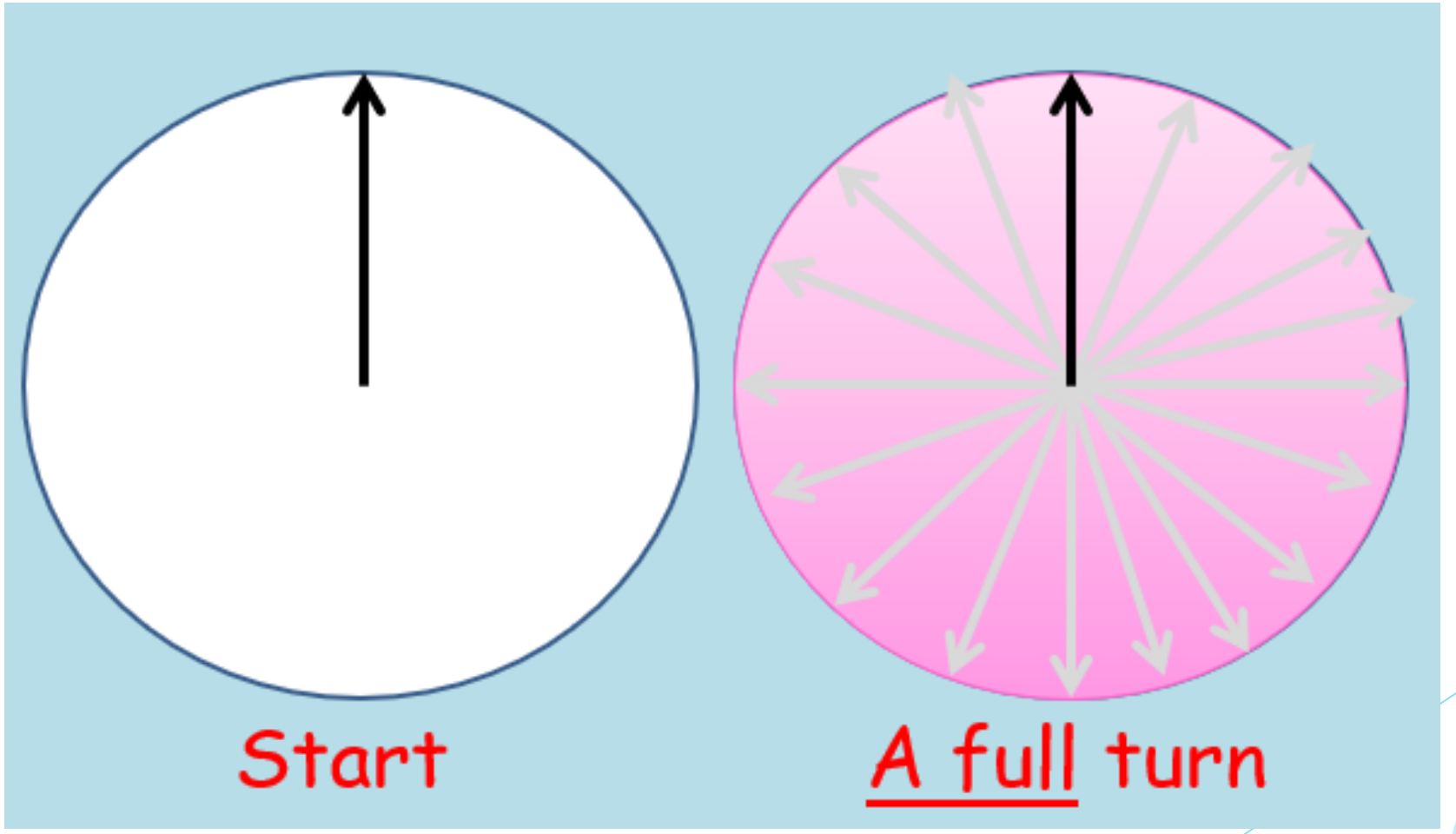
Learning

This is a three-quarter. Three-quarters of the circle has been shaded. The arrow has turned clockwise.



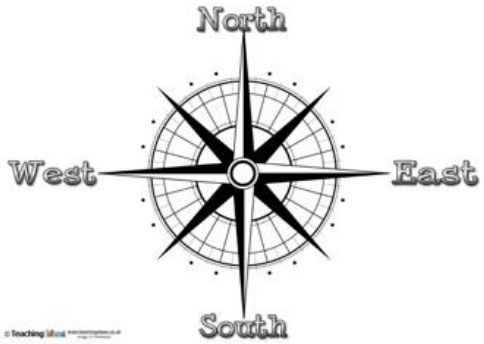
Learning

This is a full turn. Four-quarters of the circle has been shaded. The arrow has turned clockwise.



Learning

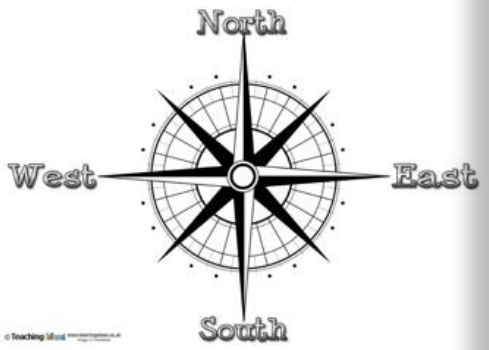
Compass Points



Start at east.
Turn three quarters clockwise.
Which direction are you now facing?

Learning

Compass Points

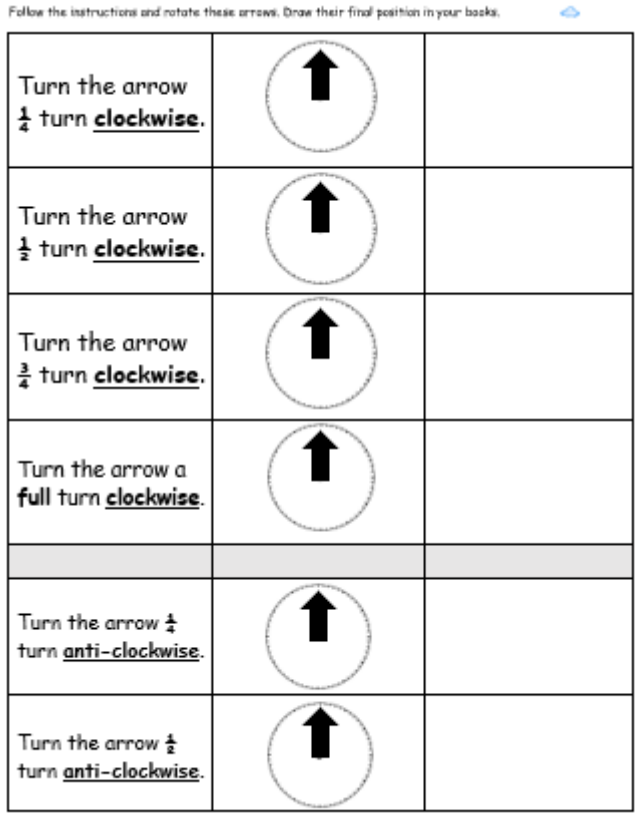


Answer

Start at east.
Turn three quarters clockwise.
Which direction are you now facing?

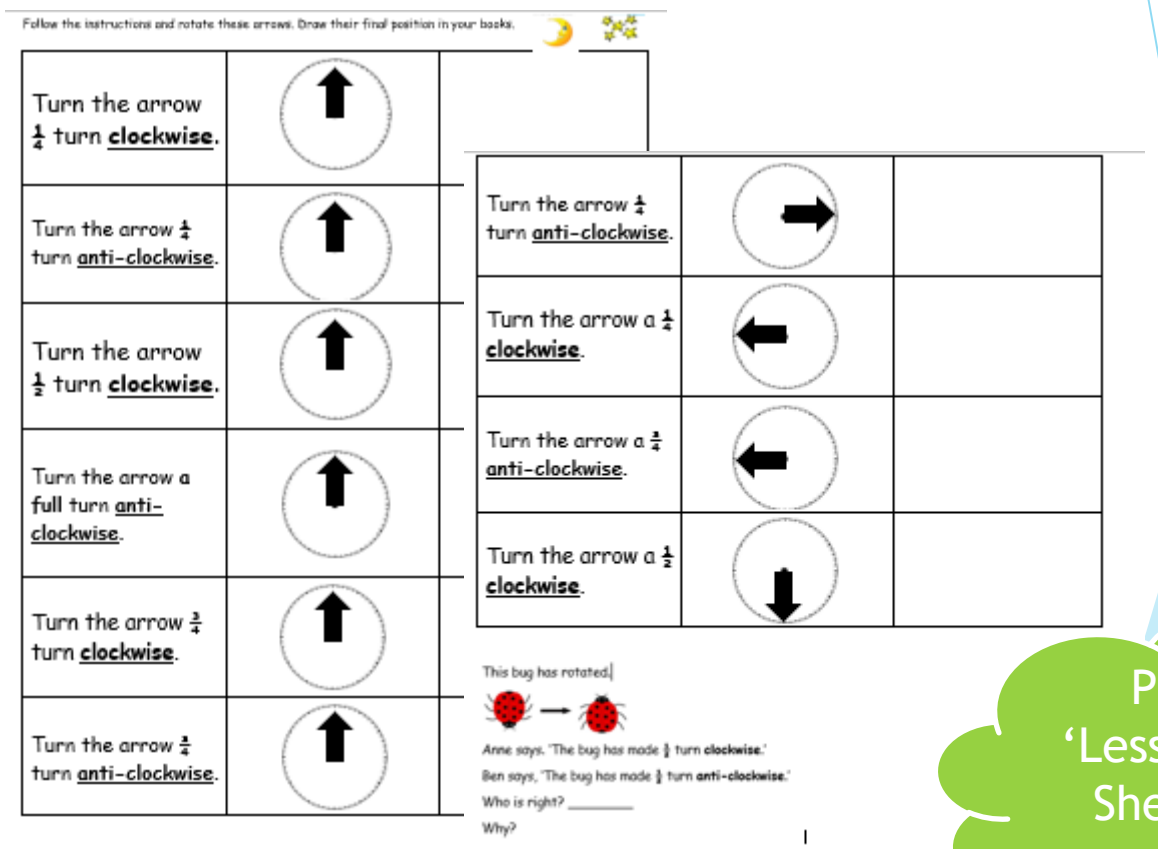
Lesson 1

For worksheets see file named:
Lesson 1 worksheets.
You can choose clouds, moons or stars.



Follow the instructions and rotate these arrows. Draw their final position in your books.

Turn the arrow $\frac{1}{4}$ turn **clockwise**.	⬆	
Turn the arrow $\frac{1}{2}$ turn **clockwise**.	⬆	
Turn the arrow $\frac{3}{4}$ turn **clockwise**.	⬆	
Turn the arrow a **full** turn **clockwise**.	⬆	
Turn the arrow $\frac{1}{4}$ turn **anti-clockwise**.	⬆	
Turn the arrow $\frac{1}{2}$ turn **anti-clockwise**.	⬆	



Follow the instructions and rotate these arrows. Draw their final position in your books.

Turn the arrow $\frac{1}{4}$ turn **clockwise**.	⬆	
Turn the arrow $\frac{1}{4}$ turn **anti-clockwise**.	⬆	
Turn the arrow $\frac{1}{2}$ turn **clockwise**.	⬆	
Turn the arrow a **full** turn **anti-clockwise**.	⬆	
Turn the arrow $\frac{3}{4}$ turn **clockwise**.	⬆	
Turn the arrow $\frac{3}{4}$ turn **anti-clockwise**.	⬆	

Turn the arrow $\frac{1}{4}$ turn **anti-clockwise**.	➡	
Turn the arrow a $\frac{1}{4}$ **clockwise**.	⬅	
Turn the arrow a $\frac{3}{4}$ **anti-clockwise**.	⬅	
Turn the arrow a $\frac{1}{2}$ **clockwise**.	⬇	

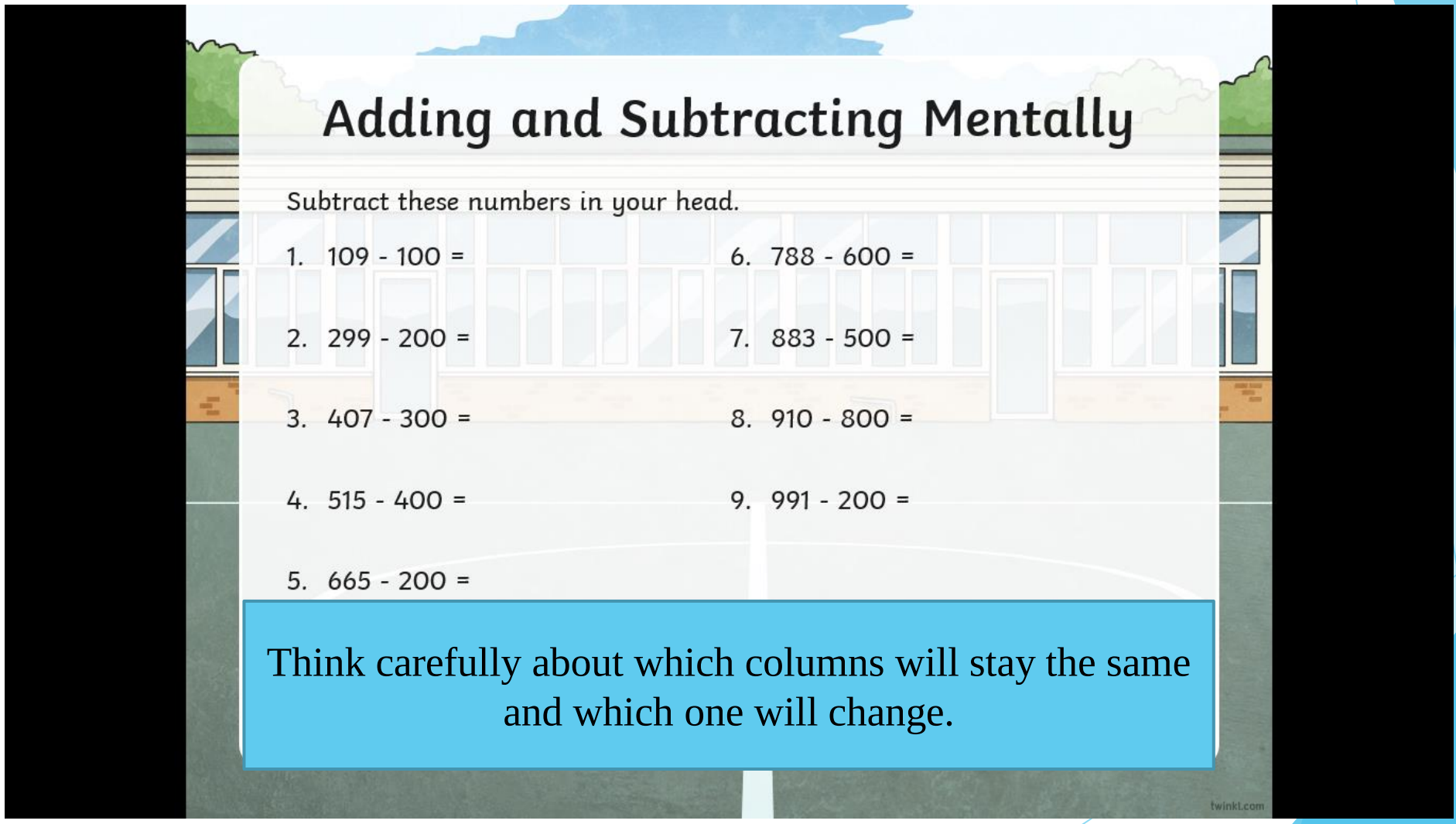
This bug has rotated.

Anne says, 'The bug has made $\frac{1}{4}$ turn **clockwise**.'
Ben says, 'The bug has made $\frac{1}{4}$ turn **anti-clockwise**.'
Who is right? _____
Why?

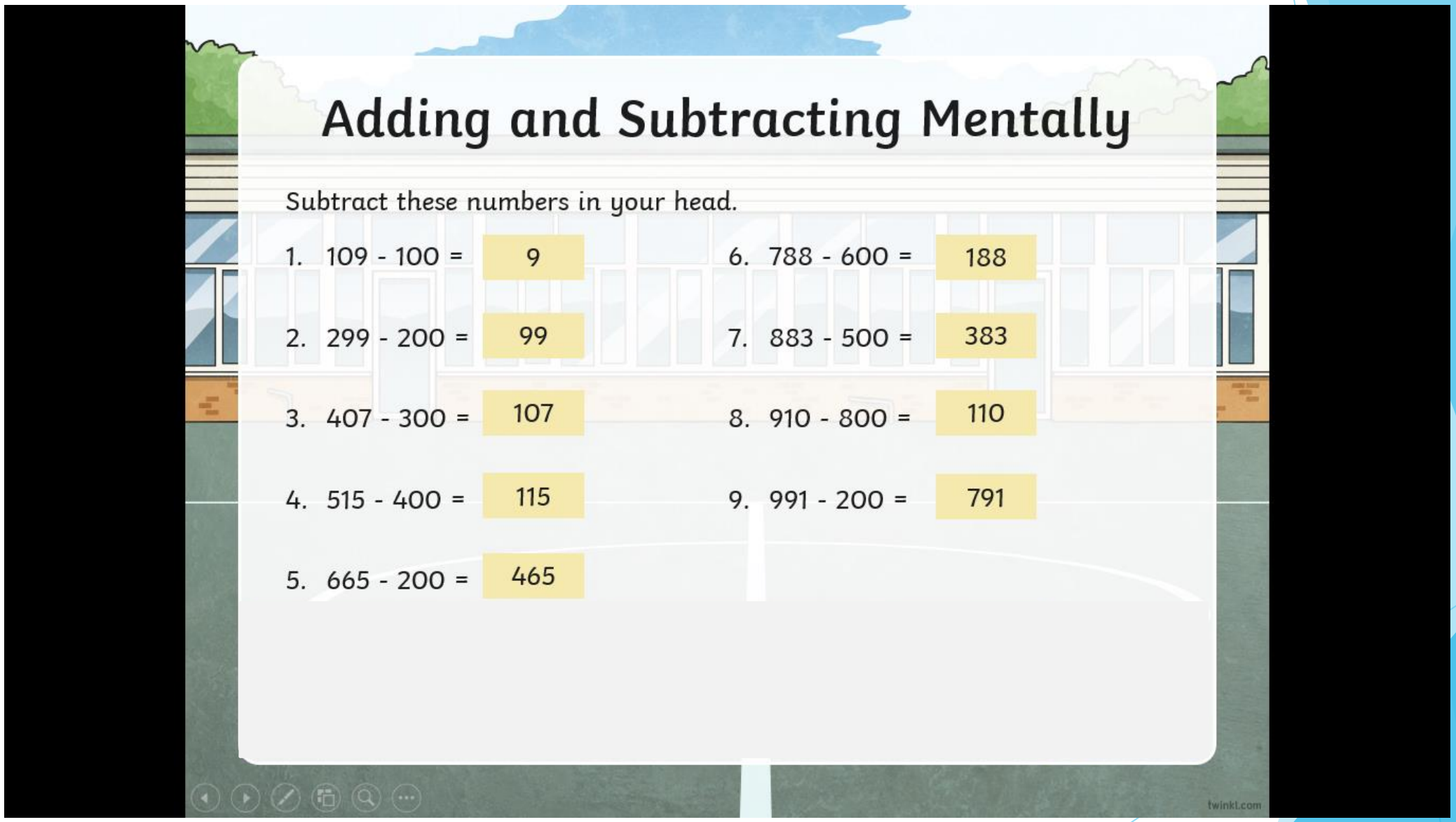
Please see 'Lesson 1 Answer Sheet' for the answers.

Lesson 2

Warm-up

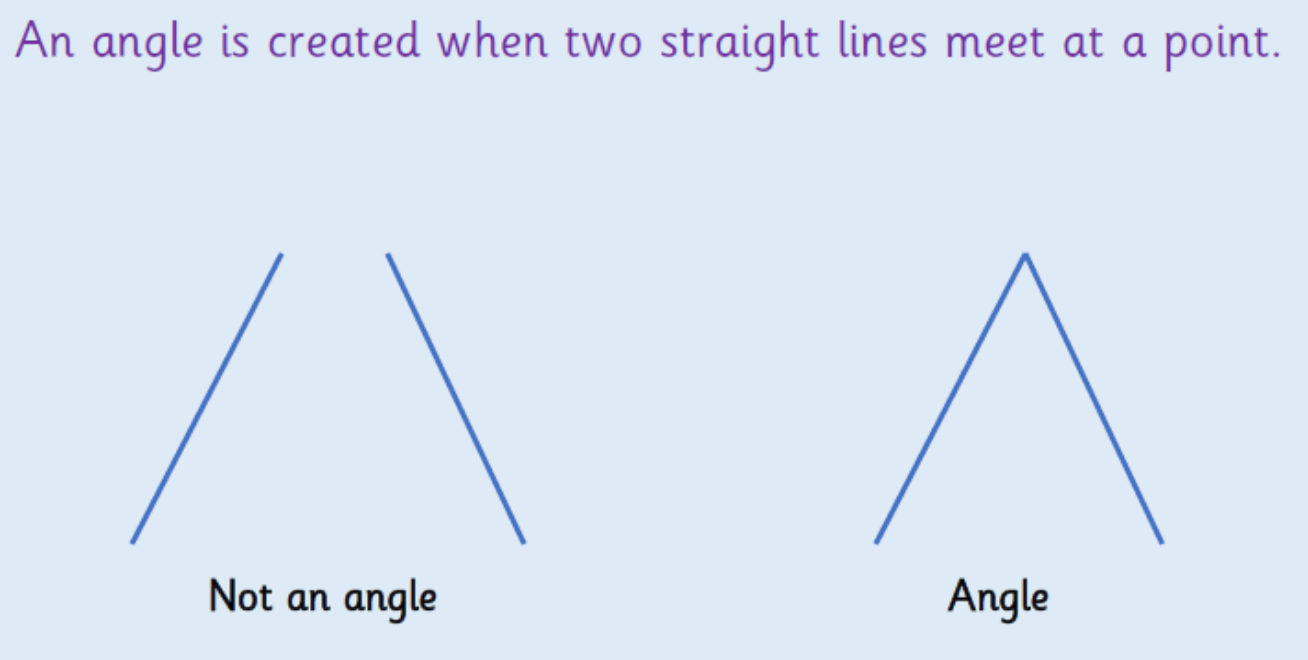


Answers


Adding and Subtracting Mentally
Subtract these numbers in your head.
1. 109 - 100 = 9
2. 299 - 200 = 99
3. 407 - 300 = 107
4. 515 - 400 = 115
5. 665 - 200 = 465
6. 788 - 600 = 188
7. 883 - 500 = 383
8. 910 - 800 = 110
9. 991 - 200 = 791
twinkl.com

Learning

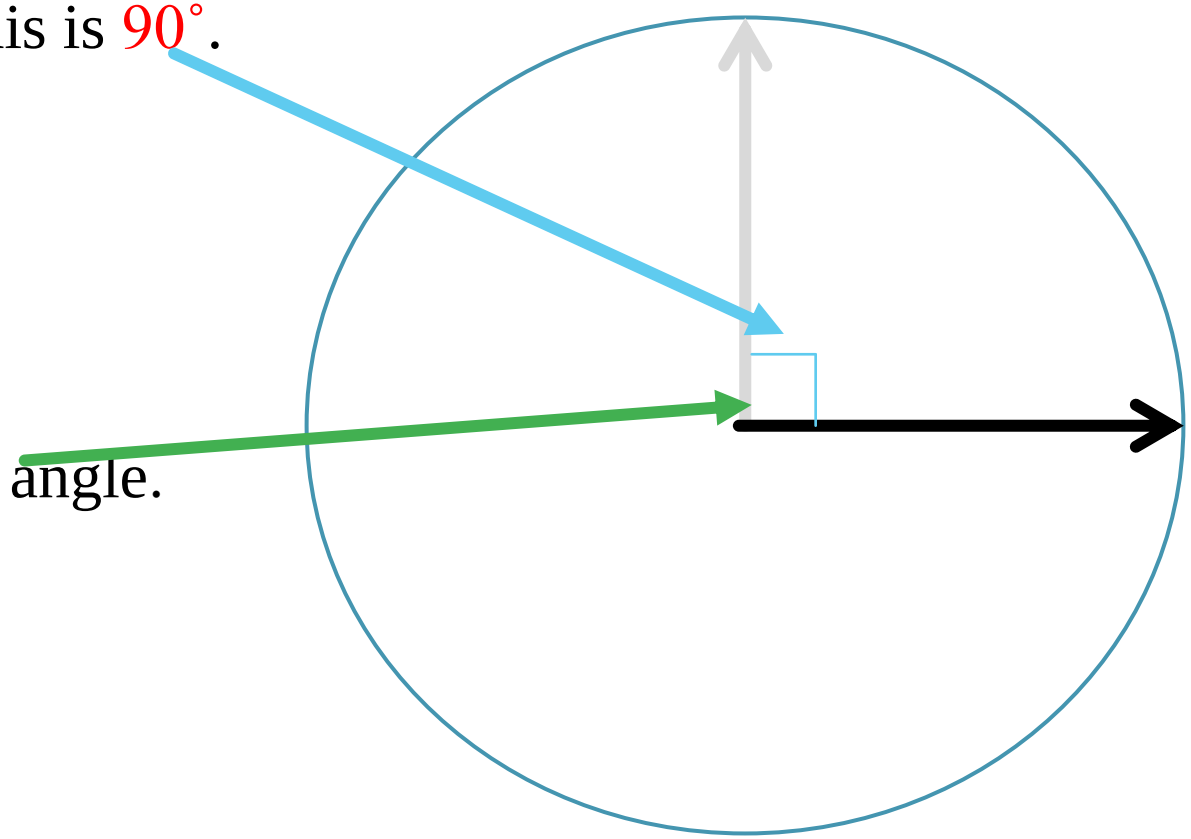
Key Skills:
I recognise an angle is a description of a turn.



You measure these angles in degrees (°).

Learning

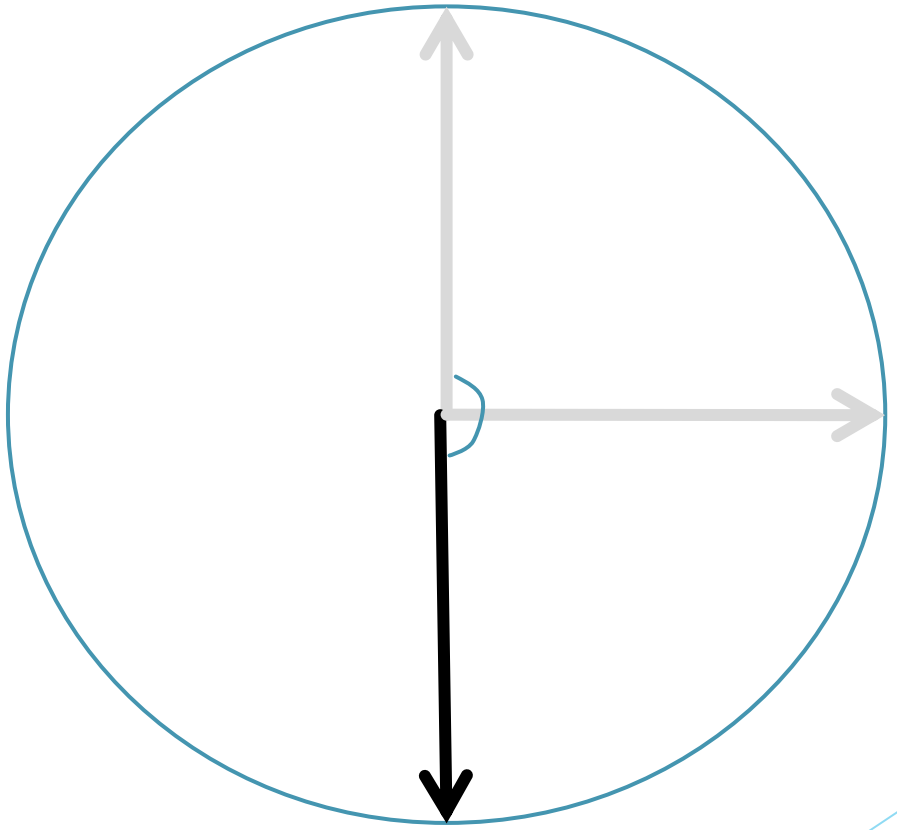
The two lines that form a quarter turn, create a right angle. This is 90°.



This symbolises a right angle.

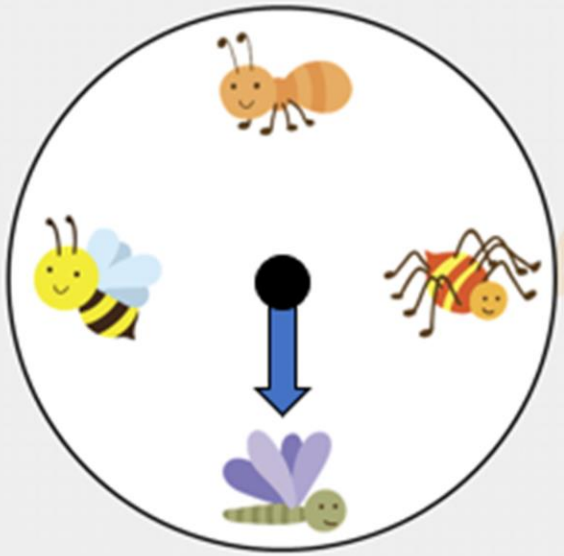
Learning

The two lines that form a half turn, create two right angles. This is 180°.



Learning

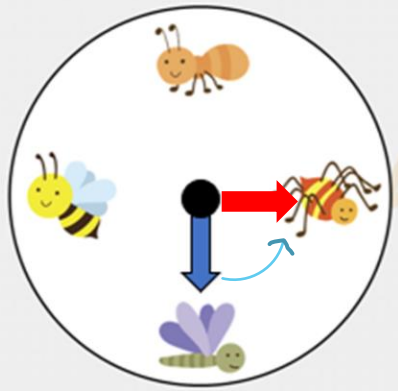
What turn does the spinner need to make to get from the dragonfly to the spider?



Learning

Answers

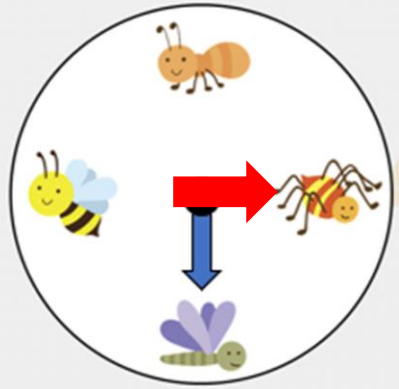
What turn does the spinner need to make to get from the dragonfly to the spider?



A quarter turn anti-clockwise.

There are two different answers.

What turn does the spinner need to make to get from the dragonfly to the spider?



A three-quarter turn clockwise.

Learning

If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?

Learning

There are two different answers.

Answer

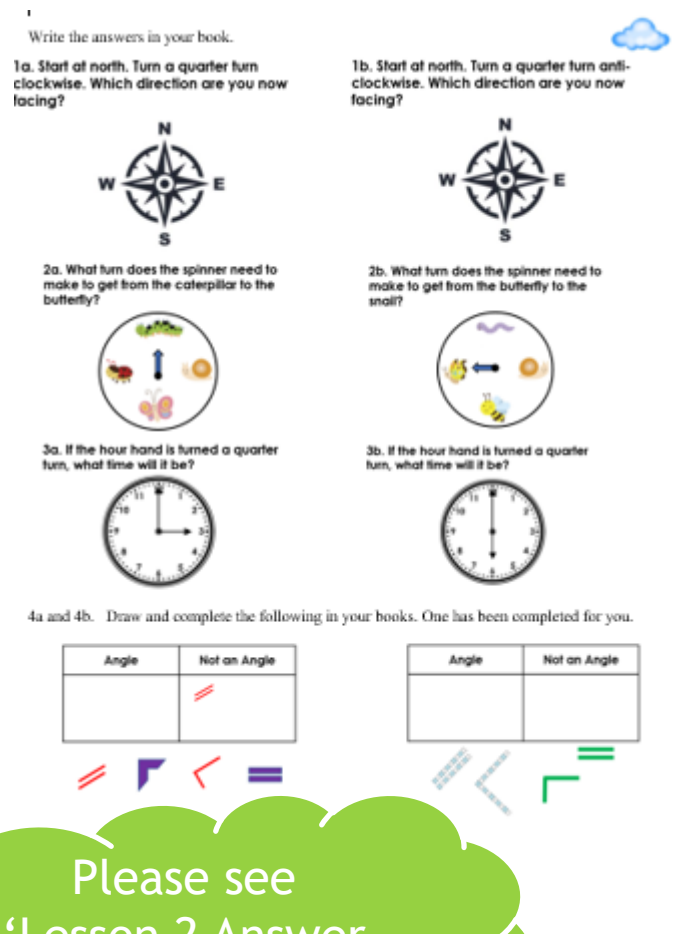
If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?

12 o'clock

6 o'clock

Lesson 2

For worksheets see file named: Lesson 2 worksheets.
You can choose clouds, moons or stars.


Write the answers in your book.

1a. Start at north. Turn a quarter turn clockwise. Which direction are you now facing?

1b. Start at north. Turn a quarter turn anti-clockwise. Which direction are you now facing?

2a. What turn does the spinner need to make to get from the caterpillar to the butterfly?

2b. What turn does the spinner need to make to get from the butterfly to the snail?

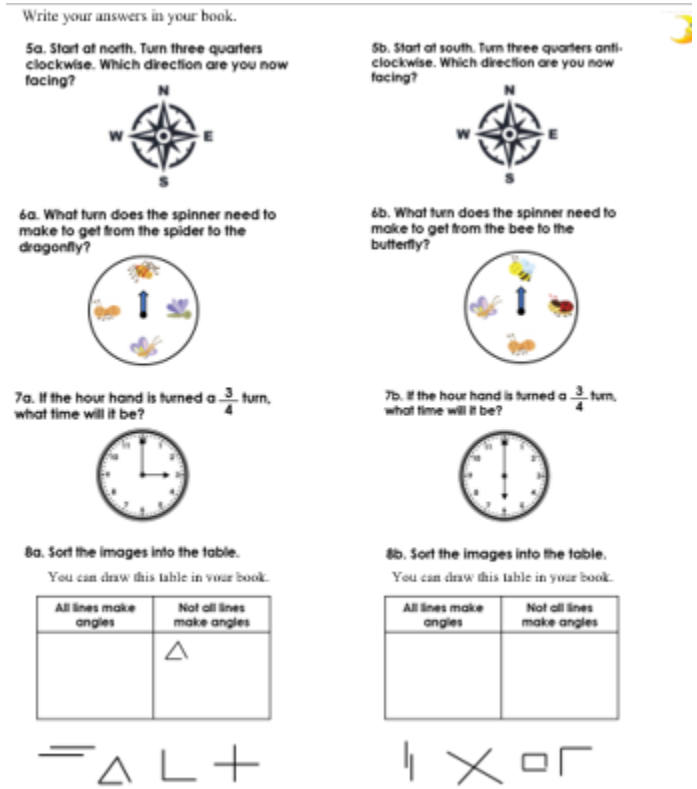
3a. If the hour hand is turned a quarter turn, what time will it be?

3b. If the hour hand is turned a quarter turn, what time will it be?

4a and 4b. Draw and complete the following in your books. One has been completed for you.

Angle	Not an Angle

Angle	Not an Angle


Write your answers in your book.

5a. Start at north. Turn three quarters clockwise. Which direction are you now facing?

5b. Start at south. Turn three quarters anti-clockwise. Which direction are you now facing?

6a. What turn does the spinner need to make to get from the spider to the dragonfly?

6b. What turn does the spinner need to make to get from the bee to the butterfly?

7a. If the hour hand is turned a $\frac{3}{4}$ turn, what time will it be?

7b. If the hour hand is turned a $\frac{3}{4}$ turn, what time will it be?

8a. Sort the images into the table.

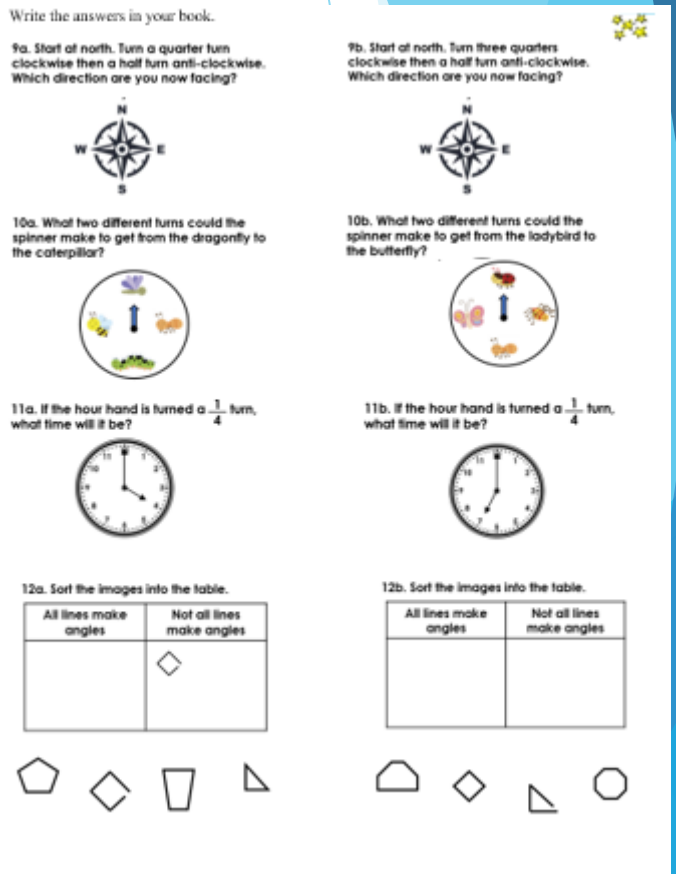
You can draw this table in your book.

All lines make angles	Not all lines make angles

8b. Sort the images into the table.

You can draw this table in your book.

All lines make angles	Not all lines make angles


Write the answers in your book.

9a. Start at north. Turn a quarter turn clockwise then a half turn anti-clockwise. Which direction are you now facing?

9b. Start at north. Turn three quarters clockwise then a half turn anti-clockwise. Which direction are you now facing?

10a. What two different turns could the spinner make to get from the dragonfly to the caterpillar?

10b. What two different turns could the spinner make to get from the ladybird to the butterfly?

11a. If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?

11b. If the hour hand is turned a $\frac{1}{4}$ turn, what time will it be?

12a. Sort the images into the table.

All lines make angles	Not all lines make angles

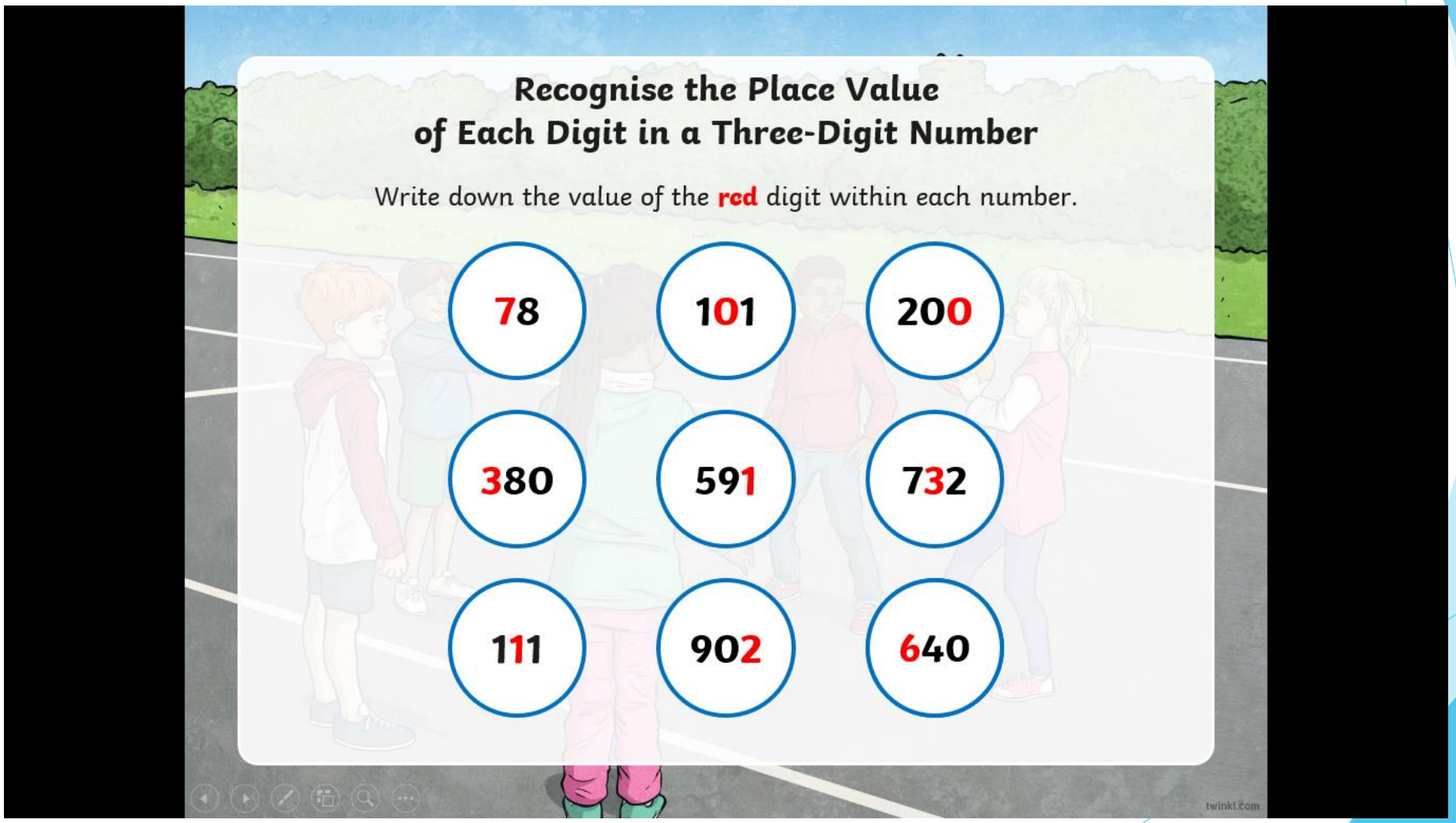
12b. Sort the images into the table.

All lines make angles	Not all lines make angles

Please see 'Lesson 2 Answer Sheet' for the answers.

Lesson 3

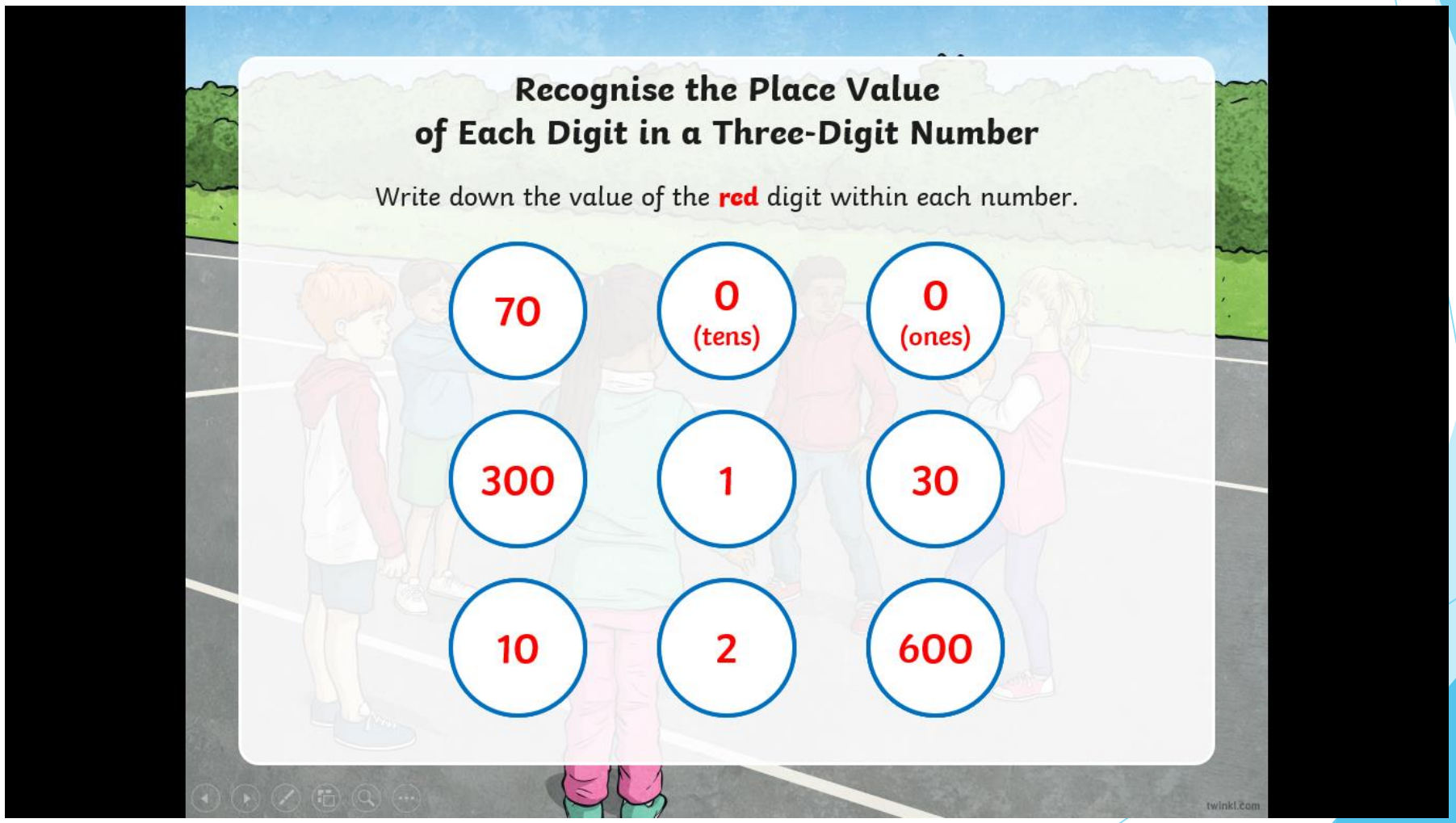
Warm-up



Lesson 3

Warm-up

Answers



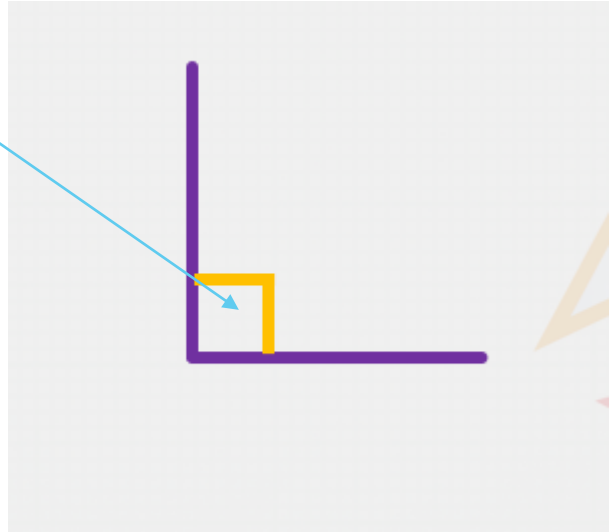
Lesson 3

Learning

Key Skills:
I can identify right angles in shapes.
I understand the words acute and obtuse.

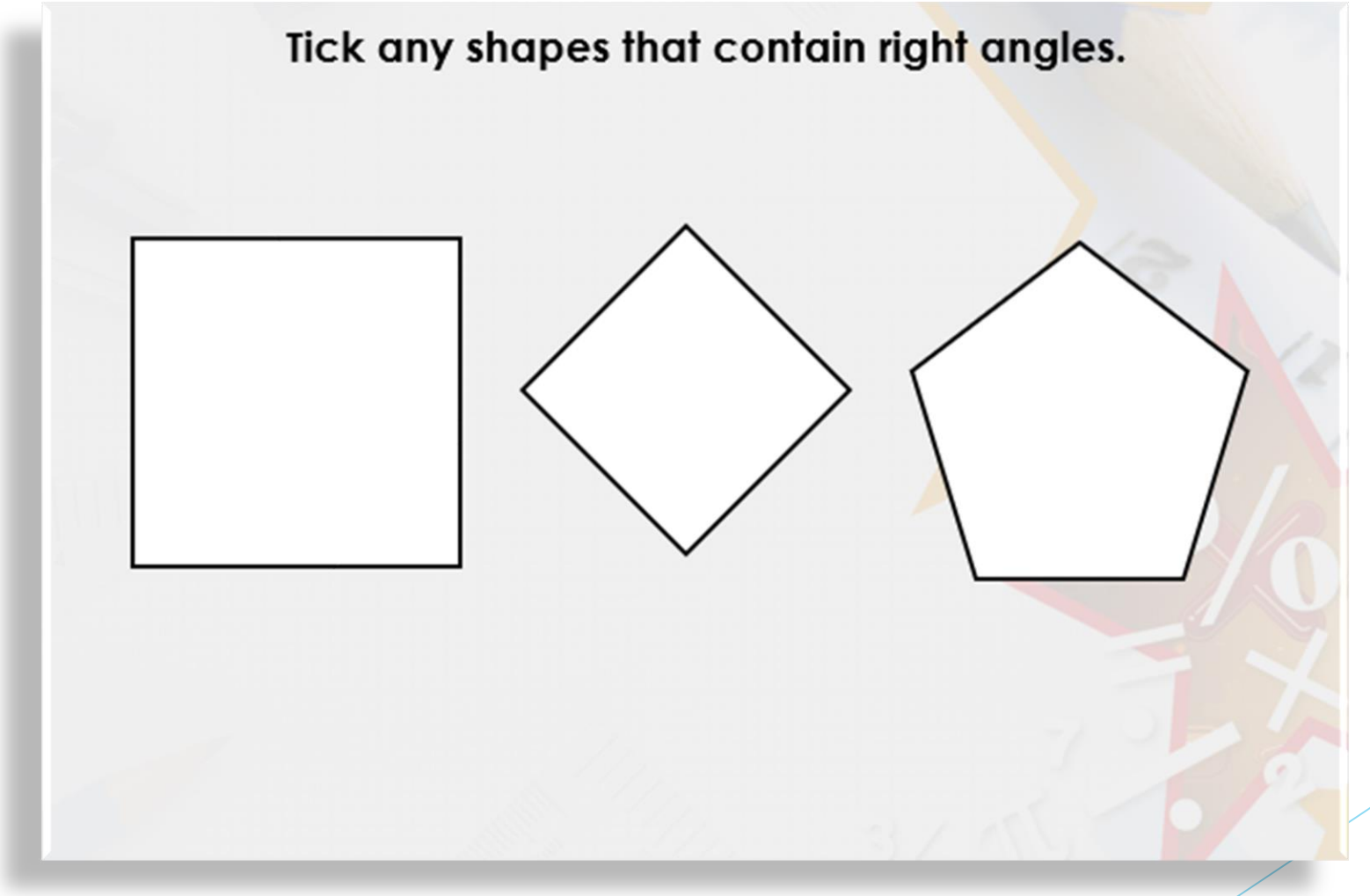
Remember

The two lines that form a quarter turn, create a right angle. This is 90°.



Lesson 3

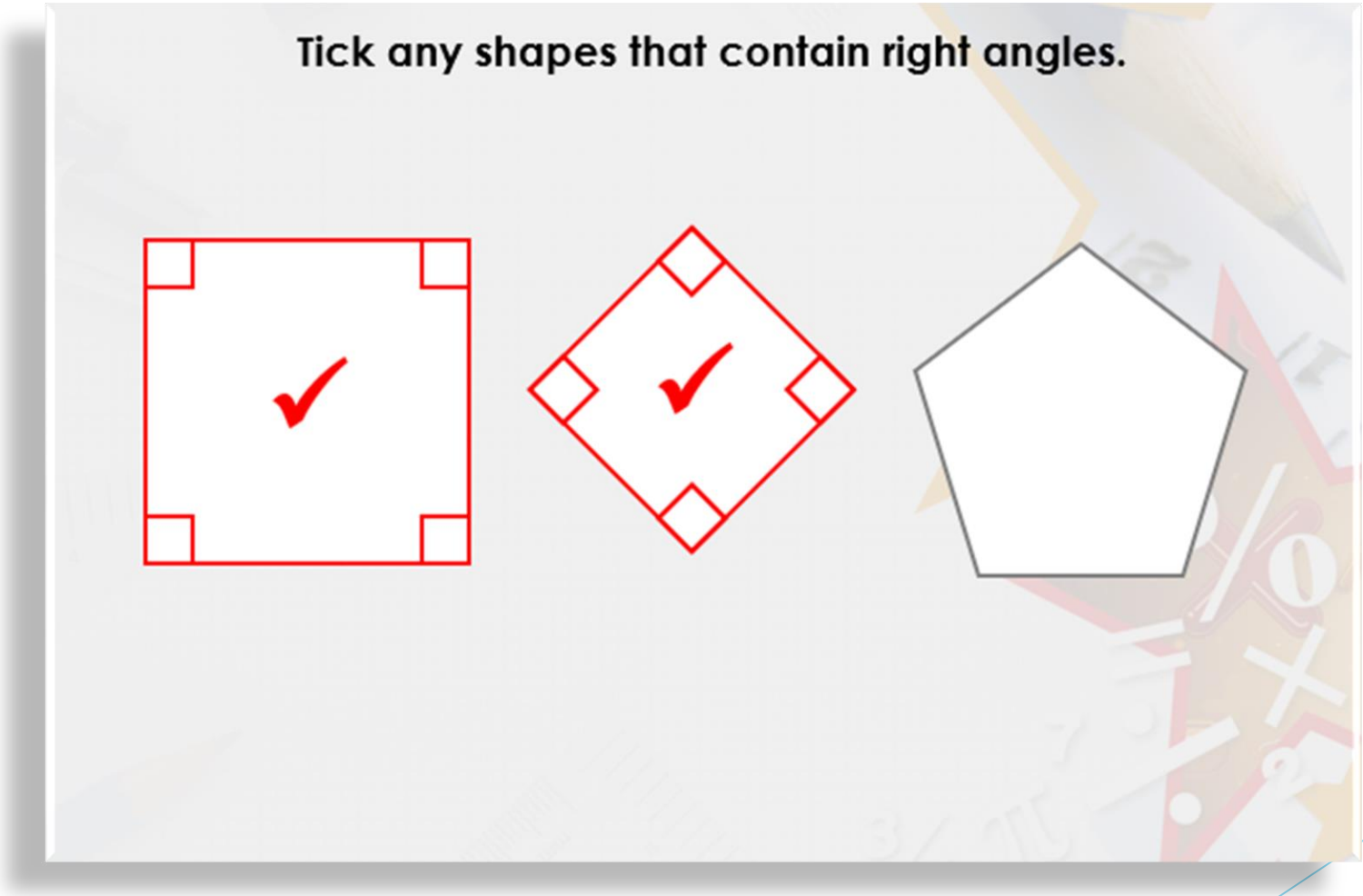
Learning



Lesson 3

Learning

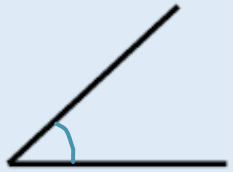
Answers



Lesson 3

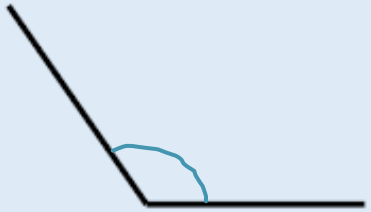
Learning

An angle which is less than a right angle is called an acute angle.

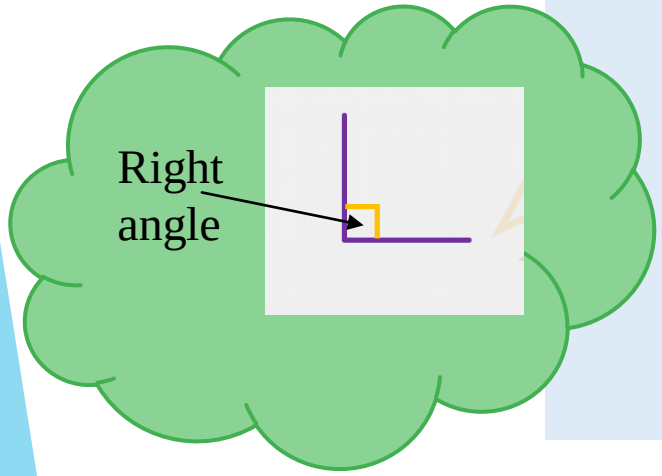


= acute angle

An angle which is greater than a right angle is called an obtuse angle.



= obtuse angle



*Remember, an angle is formed where two straight lines meet.

Lesson 3

Learning

Label each of these angles as either obtuse, acute or right angle.

Lesson 3

Learning

Answers

Label each of these angles as either obtuse, acute or right angle.

obtuse

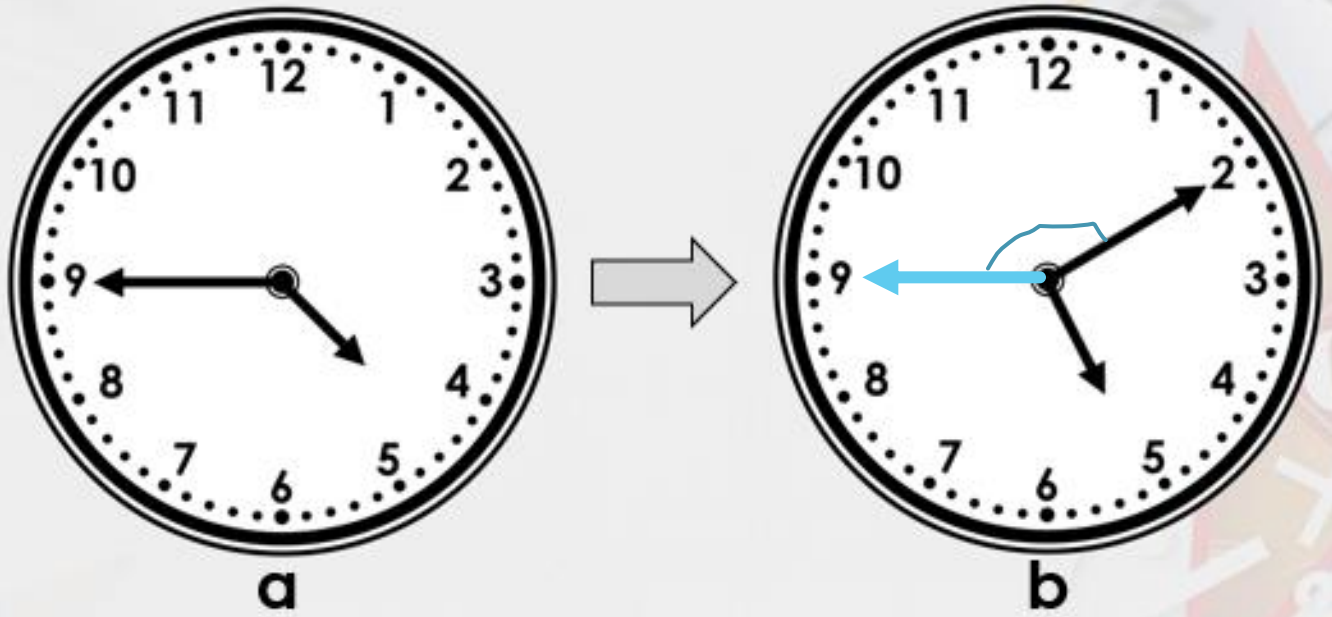
right angle

acute

Lesson 3 Learning

Varied Fluency 4

Has the minute hand moved through an acute or obtuse angle to get from a to b?



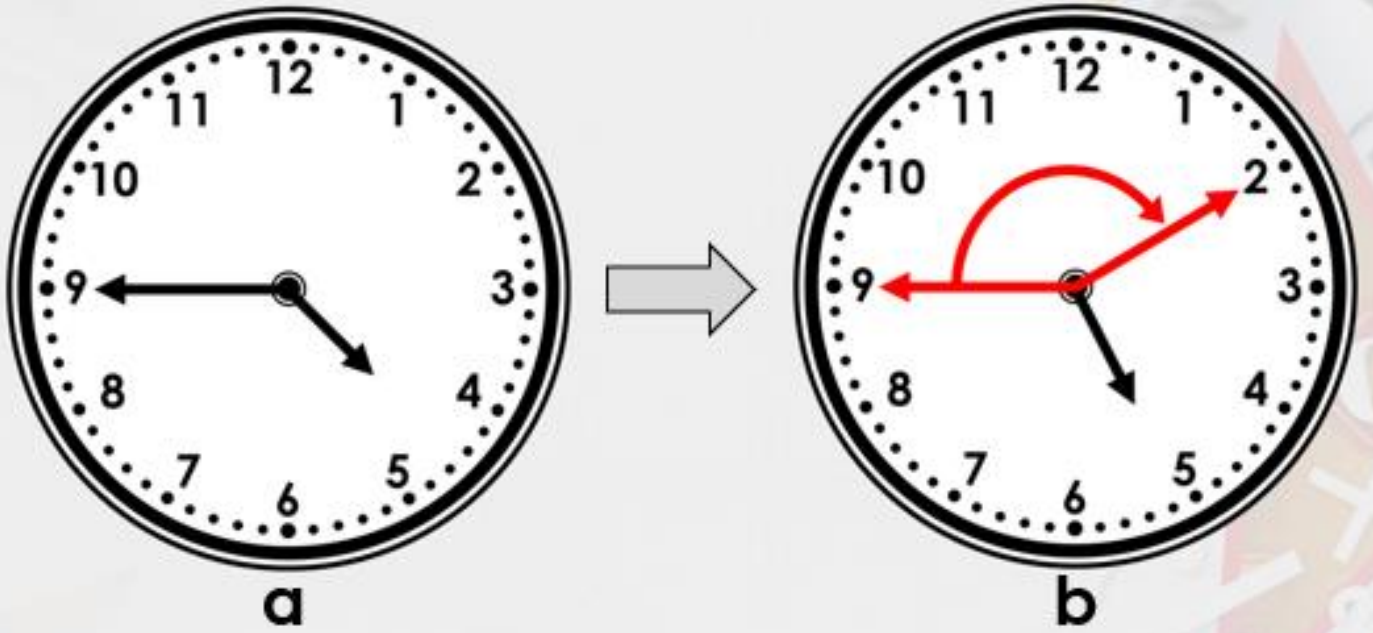
Lesson 3 Learning

Answer

Varied Fluency 4

Has the minute hand moved through an acute or obtuse angle to get from a to b?

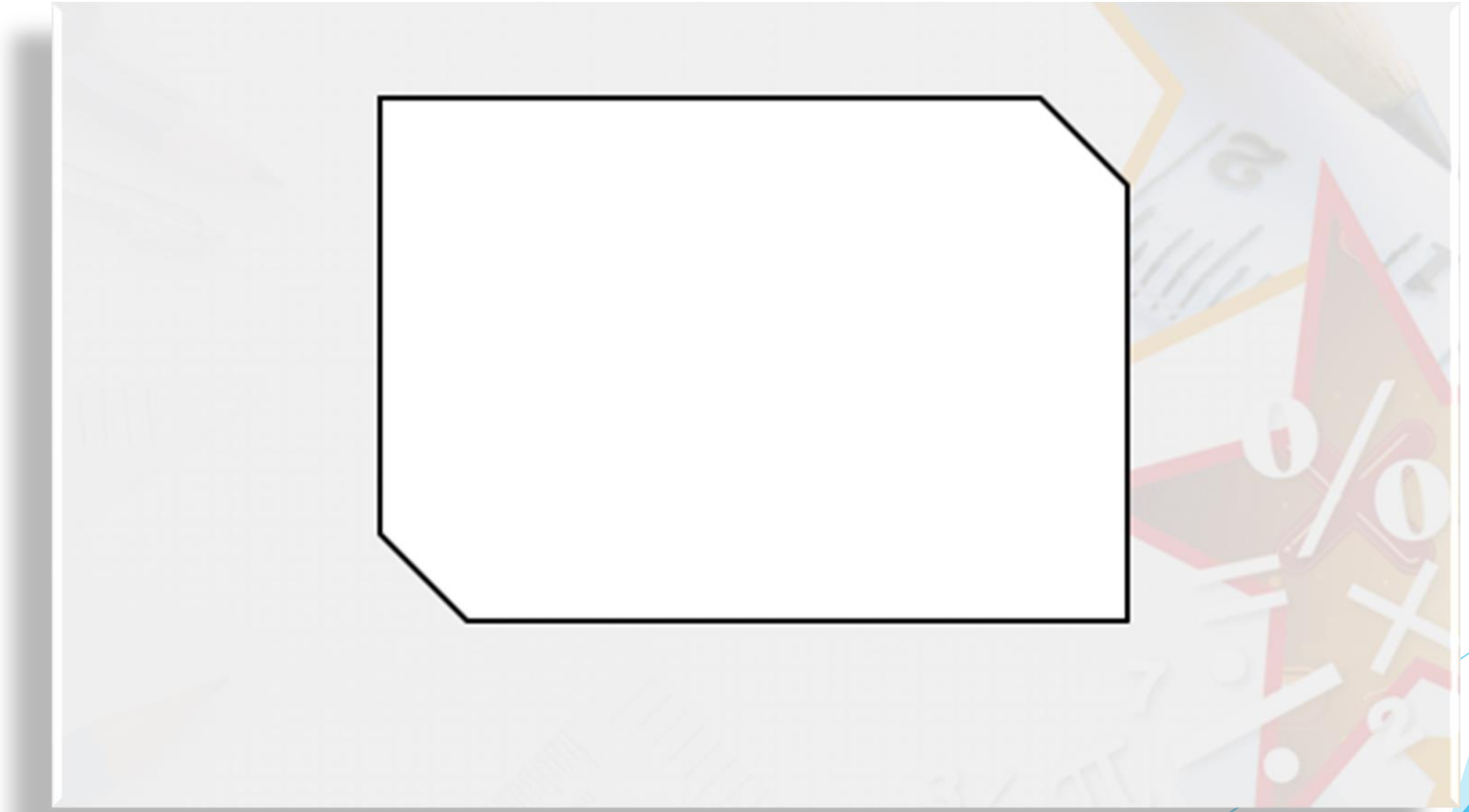
Obtuse



Lesson 3

Learning

Identify all of the angles in this shape (irregular hexagon). Acute, obtuse or right-angle.

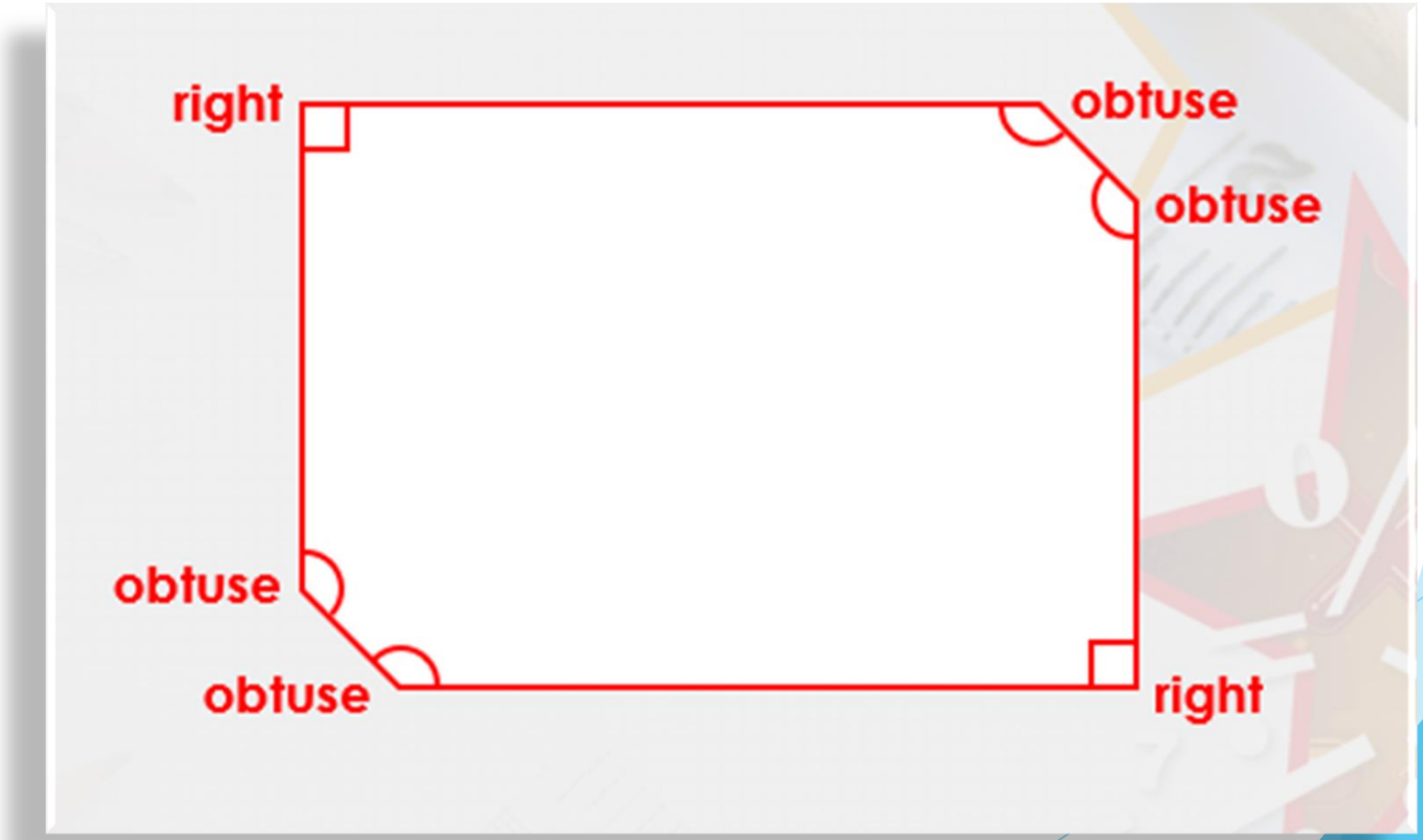


Lesson 3

Learning

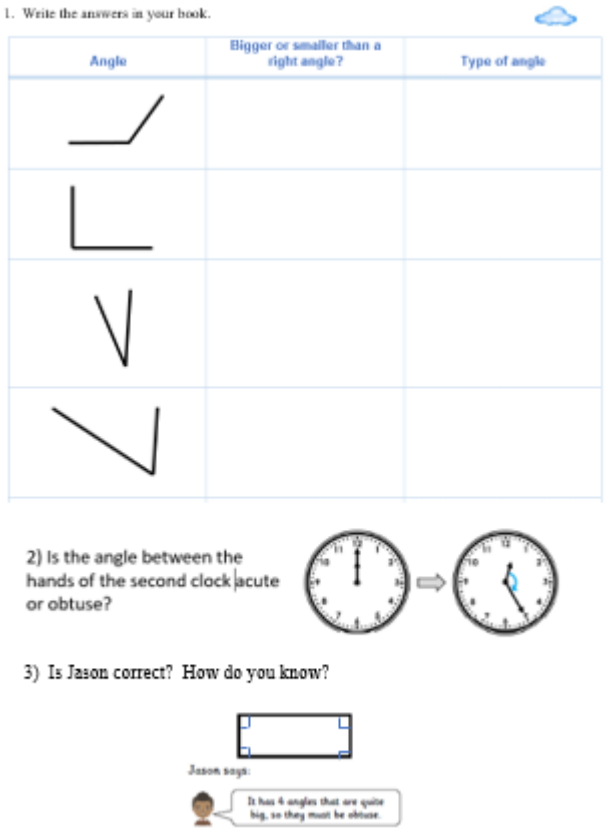
Answers

Identify all of the angles in this shape (irregular hexagon).
Acute, obtuse or right-angle.



Lesson 3

For worksheets see file named: Lesson 3 worksheets.
You can choose clouds, moons or stars.



1. Write the answers in your book.

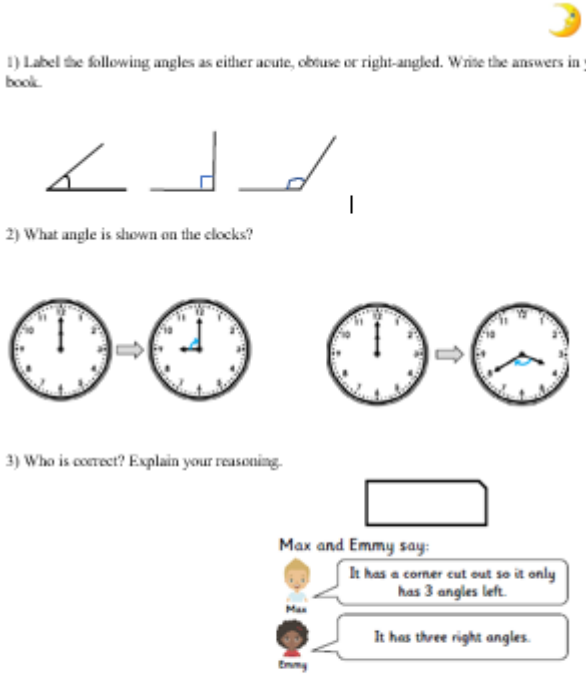
Angle	Bigger or smaller than a right angle?	Type of angle

2) Is the angle between the hands of the second clock acute or obtuse?

3) Is Jason correct? How do you know?

Jason says:

It has 4 angles that are quite big, so they must be obtuse.



1) Label the following angles as either acute, obtuse or right-angled. Write the answers in your book.

2) What angle is shown on the clocks?

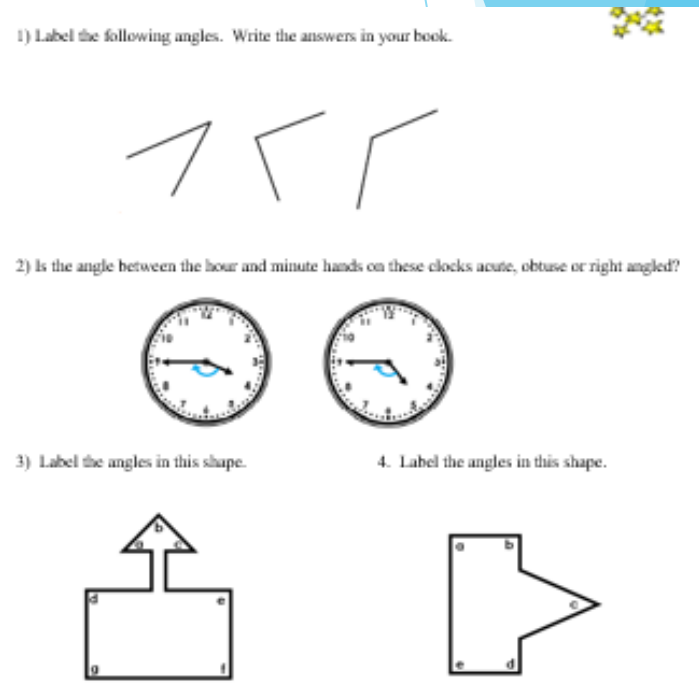
3) Who is correct? Explain your reasoning.

Max and Emmy say:

Max: It has a corner cut out so it only has 3 angles left.

Emmy: It has three right angles.

4) Write down the names of the angles in your book.



1) Label the following angles. Write the answers in your book.

2) Is the angle between the hour and minute hands on these clocks acute, obtuse or right angled?

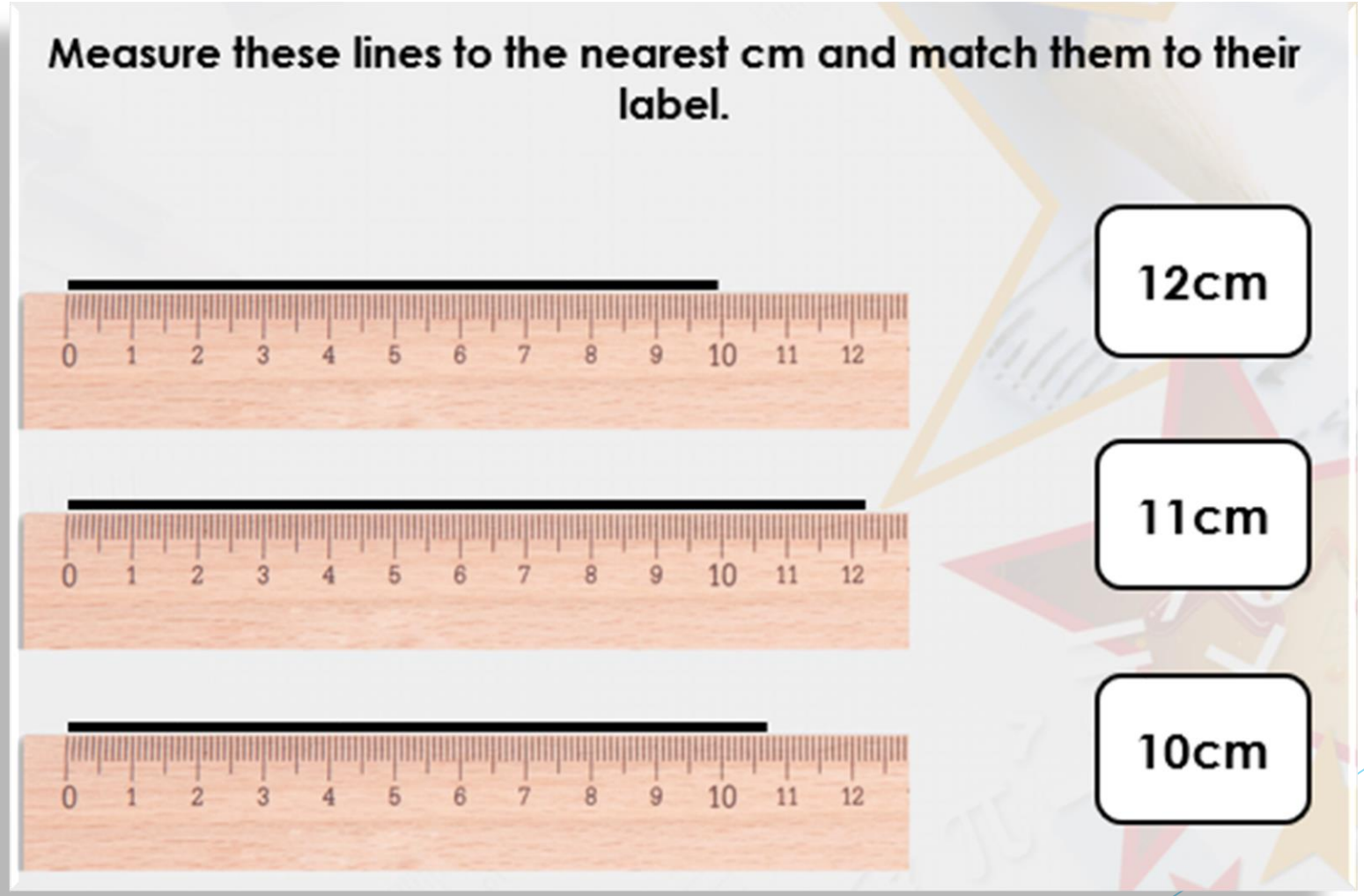
3) Label the angles in this shape.

4. Label the angles in this shape.

Please see 'Lesson 3 Answer Sheet' for the answers.

Lesson 4

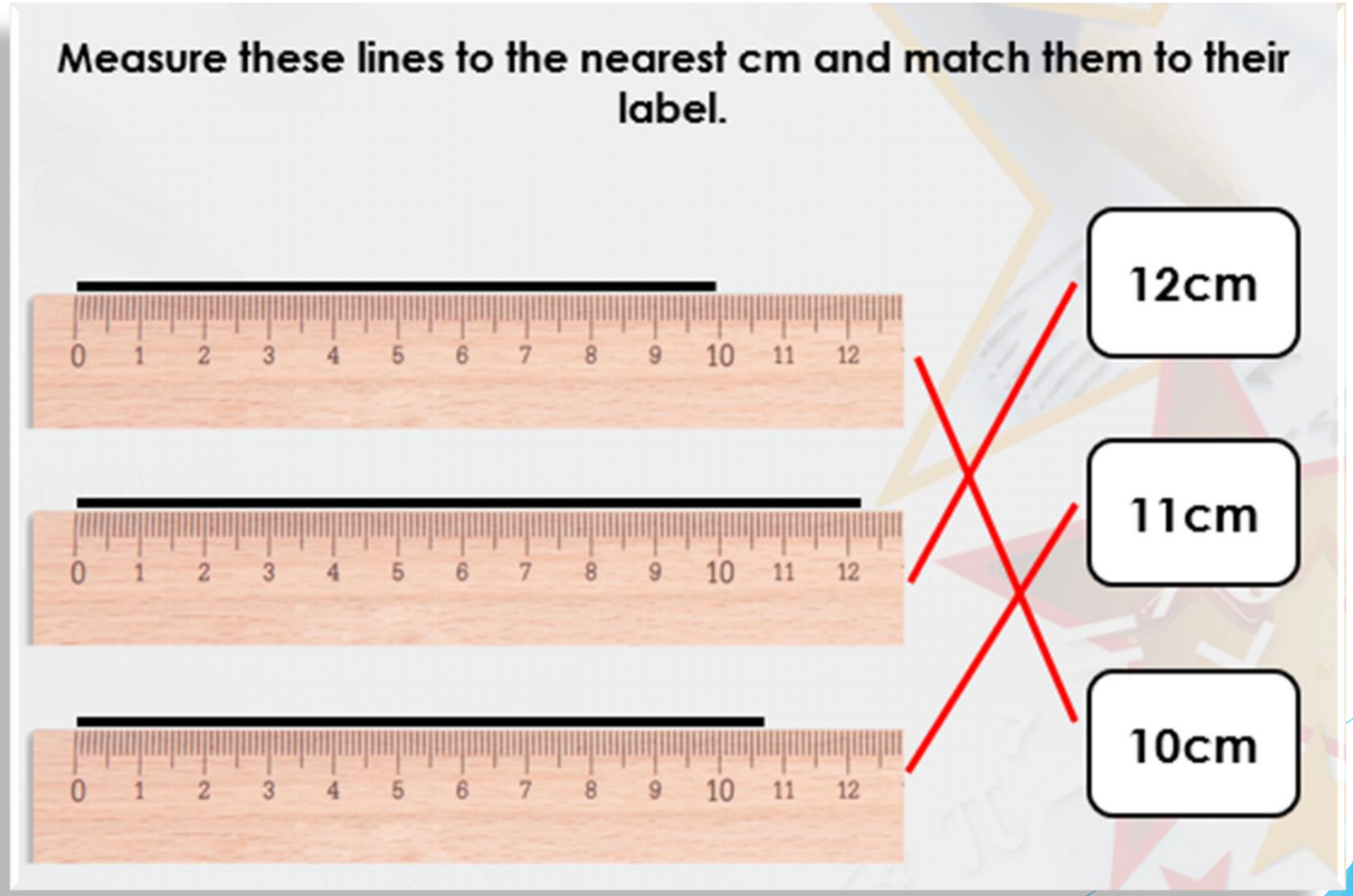
Warm-up



Lesson 4

Warm-up

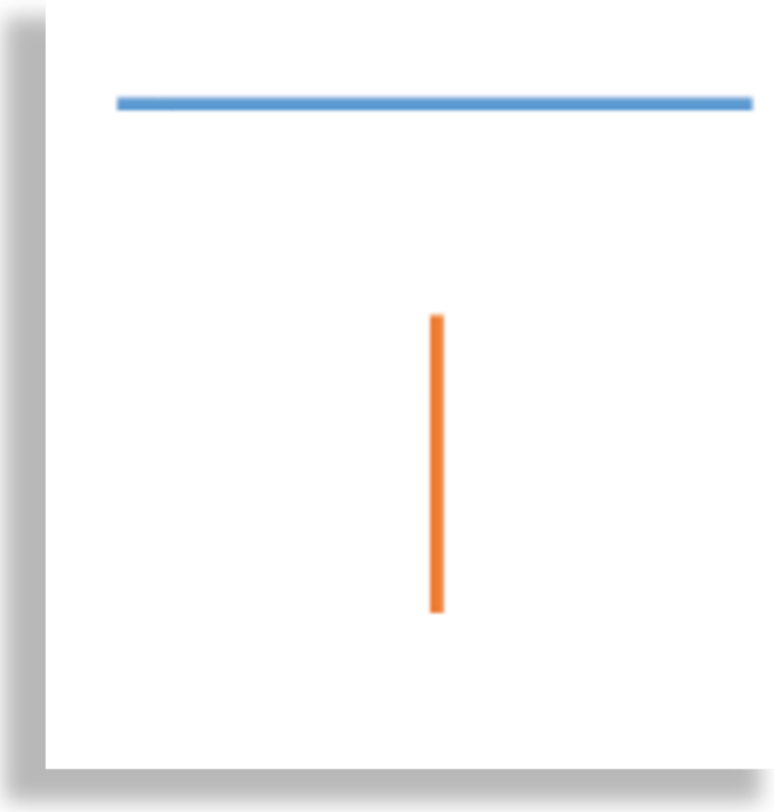
Answers



Lesson 4 Learning

Key Skills:

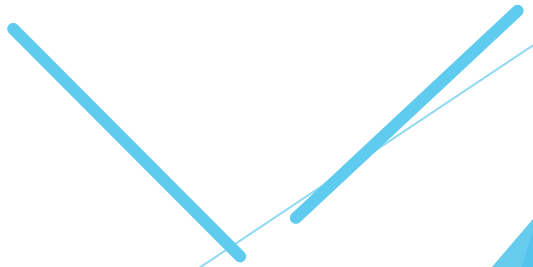
I can find vertical and horizontal lines in a range of contexts.



A line that runs from left to right across a page is called a horizontal line.

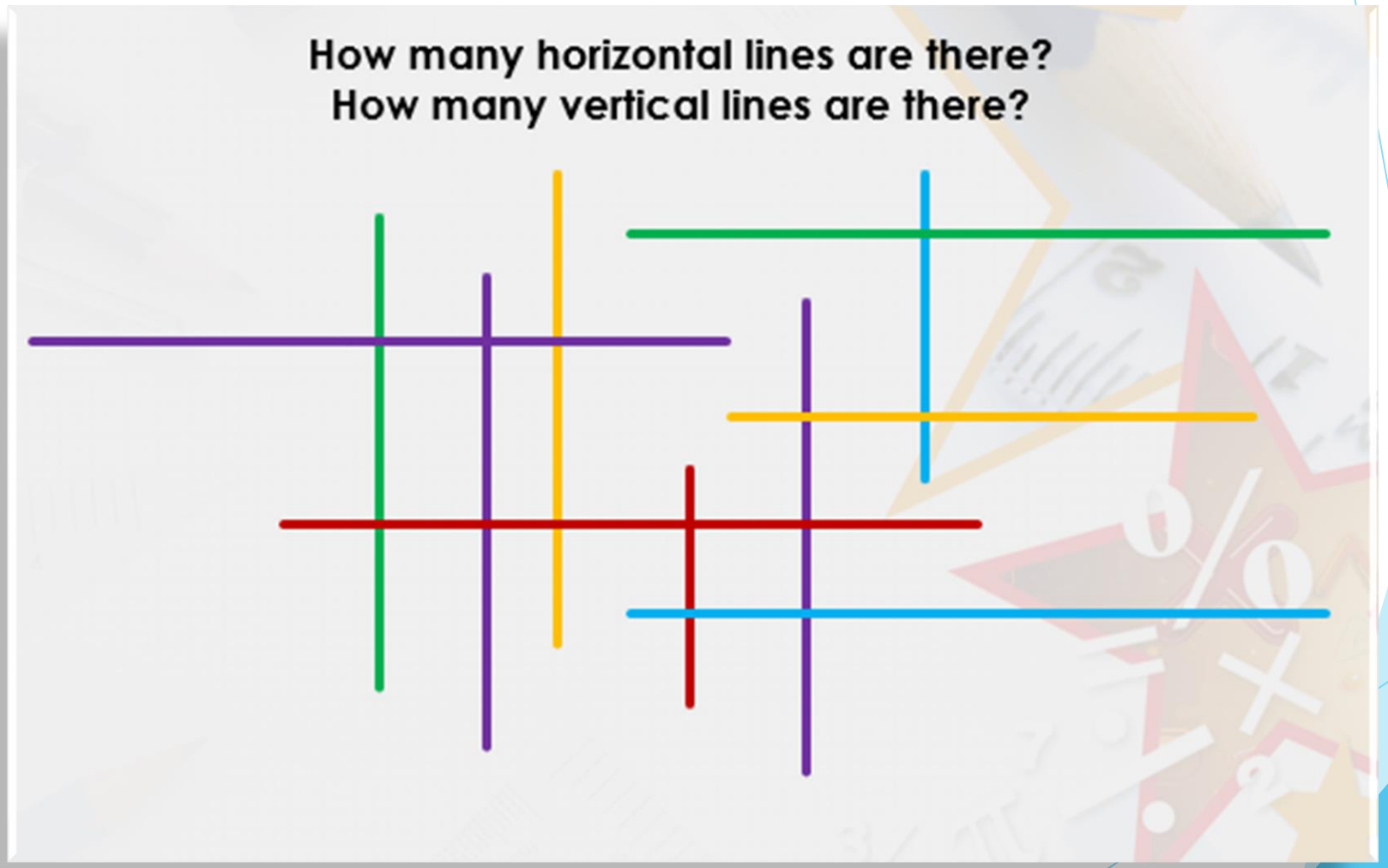
A line that runs from the top to the bottom of a page is called a vertical line.

These are diagonal lines.



Lesson 4

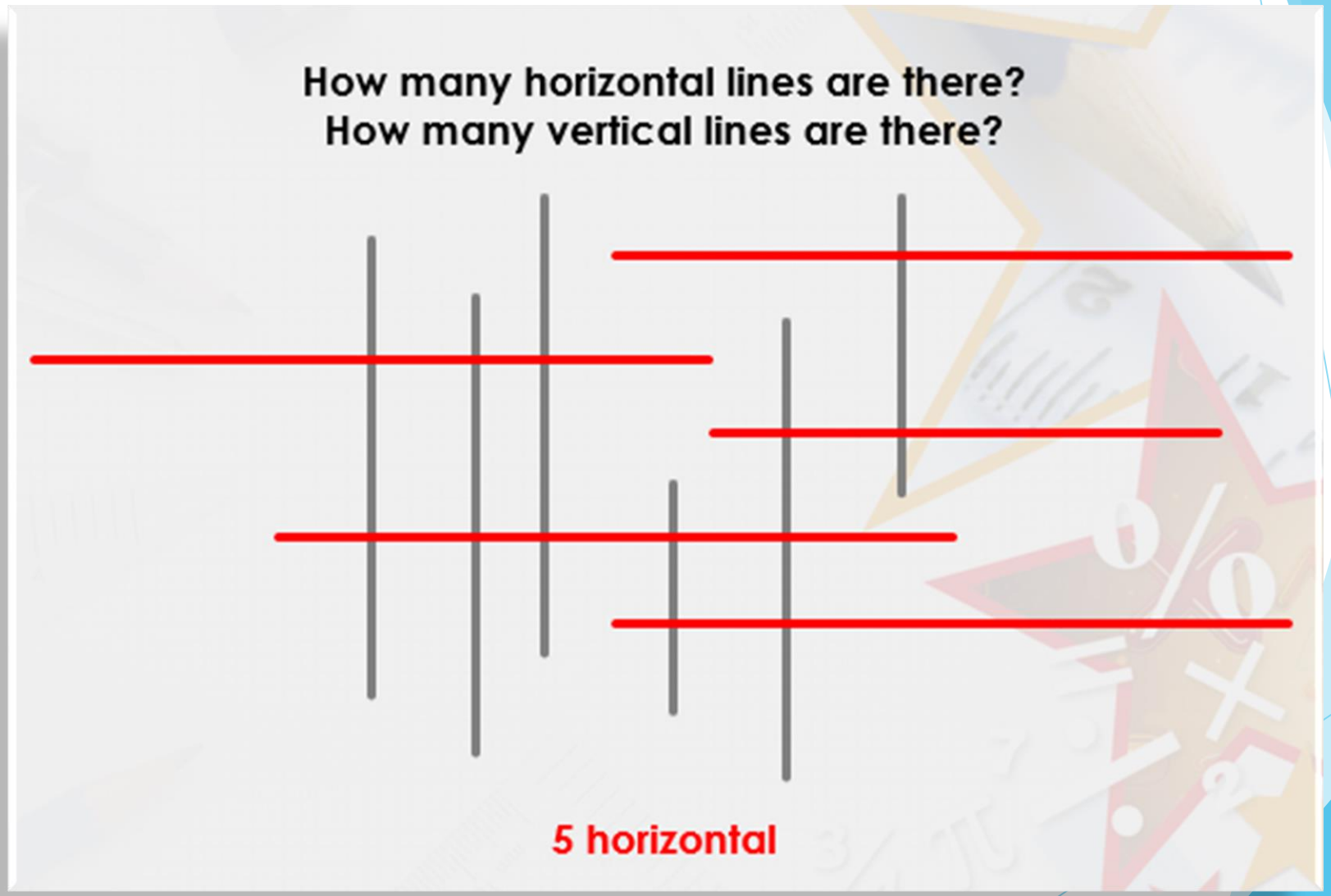
Learning



Lesson 4

Learning

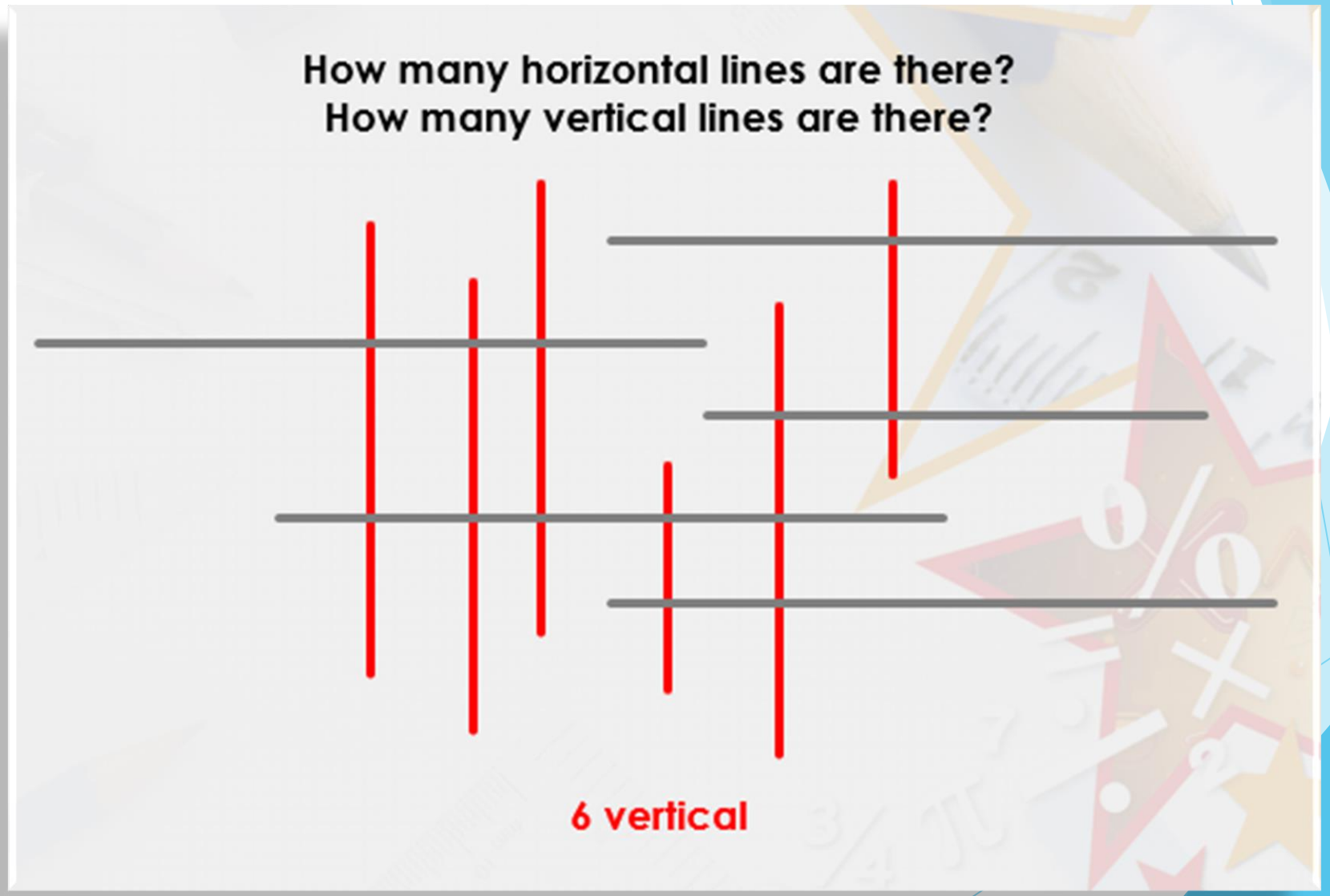
Answers



Lesson 4

Learning

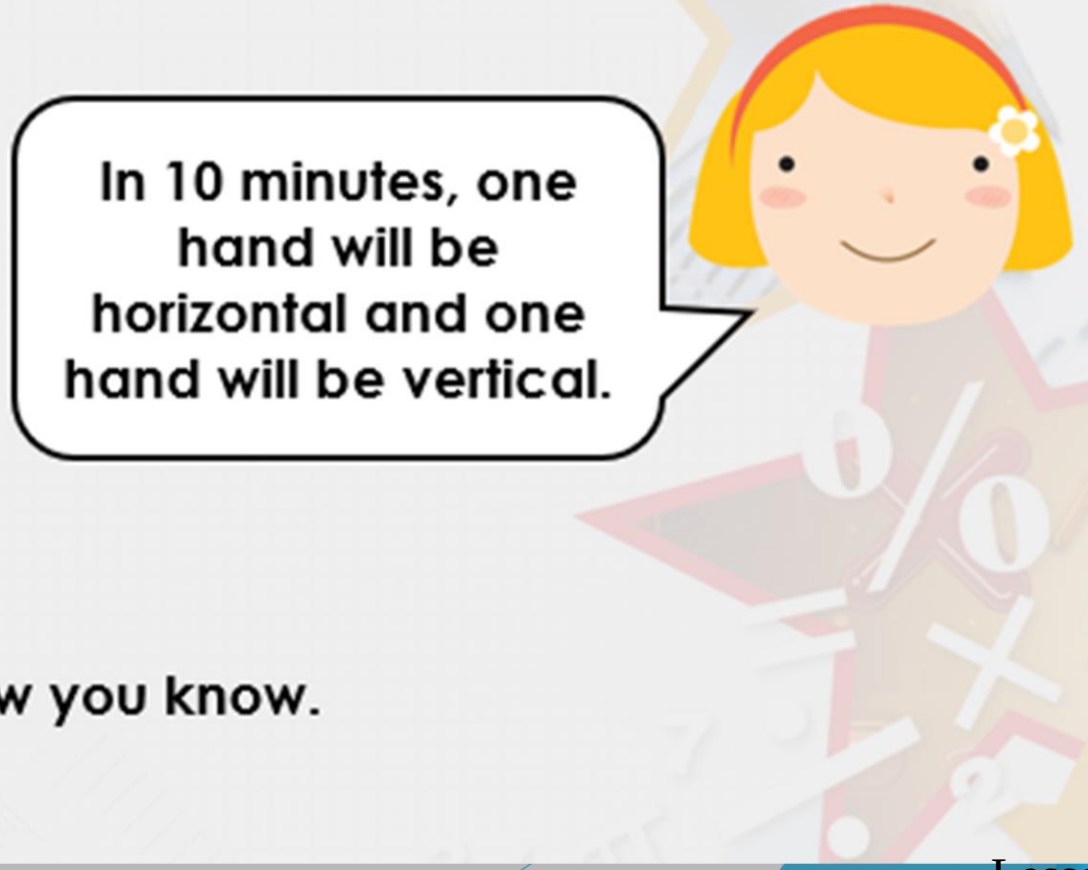
Answers



Lesson 4

Learning

Ruby is looking for horizontal and vertical lines. The time is now:



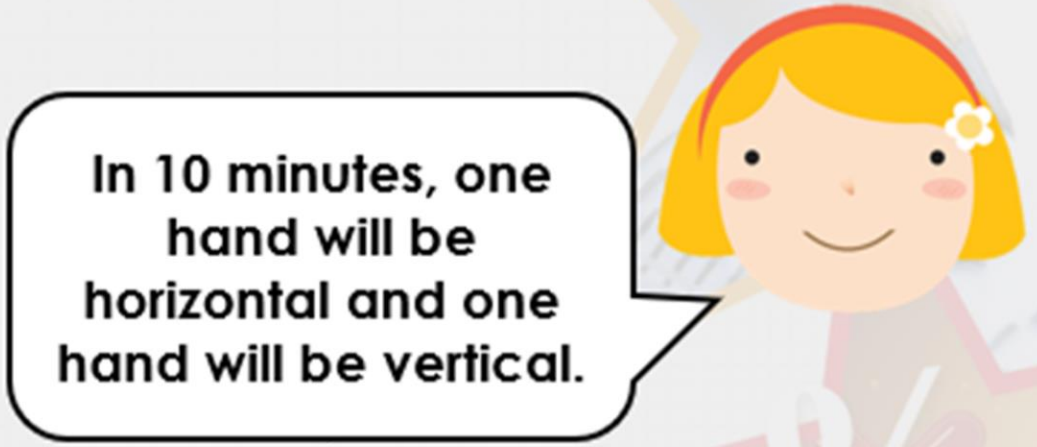
Is she correct? Explain how you know.

Lesson 4

Learning

Answers

Ruby is looking for horizontal and vertical lines. The time is now:



Is she correct? Explain how you know.

Ruby is correct because at 3 o'clock the hour hand will be pointing to 3 so it will be horizontal and the minute hand will be pointing at 12 so it will be vertical.

Lesson 4

Learning

Anna and her friends are writing their names in capital letters.
Which friend has more vertical lines in the
letters of their name than Anna?

ANNA

BILL

TANYA

KYLIE

Lesson 4

Learning

Answers

Problem Solving 1

Anna and her friends are writing their names in capital letters.
Which friend has more vertical lines in the
letters of their name than Anna?

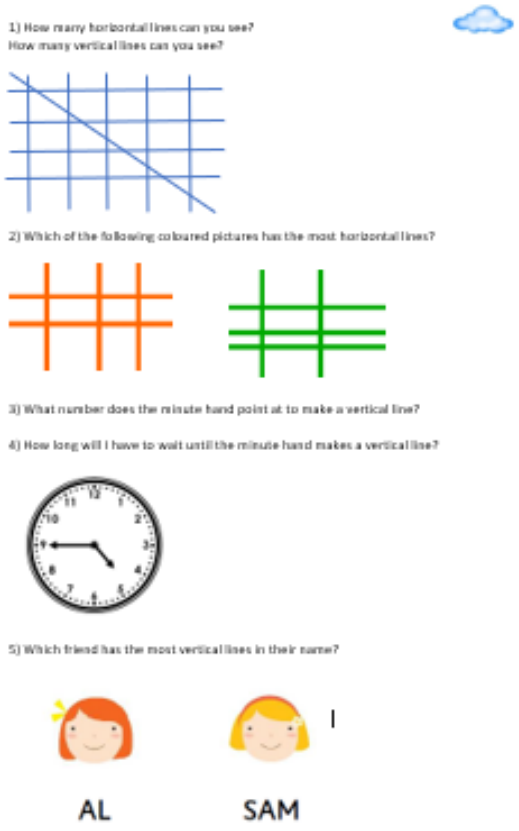
ANNA 4

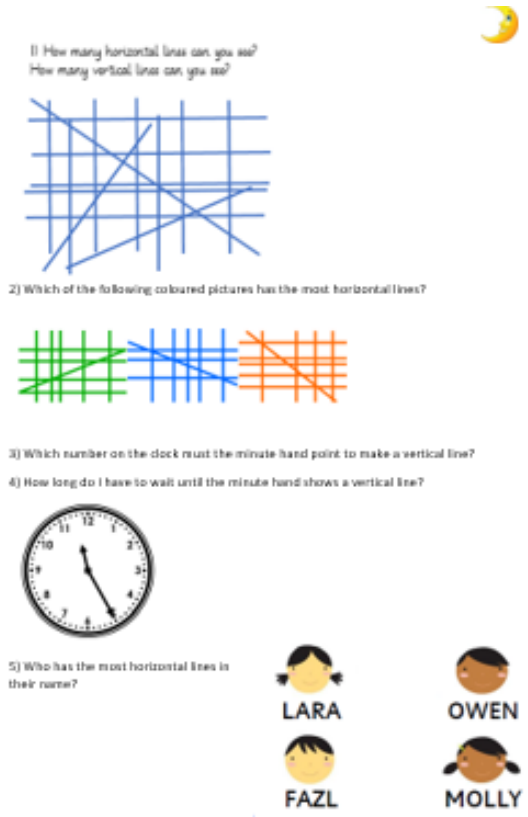
BILL 4

TANYA 4

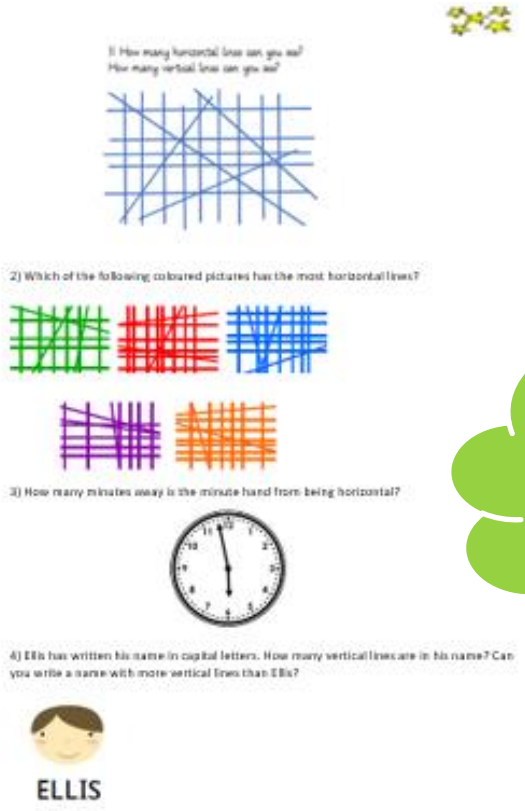
KYLIE 5

Lesson 4





For worksheets see file named: Lesson 4 worksheets.
You can choose clouds, moons or stars.



Please see 'Lesson 4 Answer Sheet' for the answers.

Lesson 5

Today we are going to take a break from fractions and concentrate on our mental maths skills. On the next few pages you will find a PALs test, a mental maths test, and the answers. Don’t forget to use TTrockstars and check the Year 3 blog to see if your name appears.

Name:

916

615 - 10 =

615 + 100 =

PAL 3:1
Challenge
Week 12

140 - 80 =

55 + 43 =

73 + 54 =

81 + ☐ = 100

86 - 44 =

80 ÷ 10 =

22 ÷ 2 =

Double 49

3 x ☐ = 3

36 ÷ 3 =

My score

___
12

Answers

Name:

916

900 10 6

615 - 10 = 605

615 + 100 = 715

PAL 3:1
Challenge
Week 12

140 - 80 =

60

55 + 43 =

98

73 + 54 =

127

81 + 19 = 100

86 - 44 =

42

80 ÷ 10 = 8

22 ÷ 2 = 11

Double 49

98

3 x 1 = 3

36 ÷ 3 =

12

My score

____

12

Additional Resources

https://www.topmarks.co.uk/maths-games/hit-the-button

https://www.topmarks.co.uk/maths-games/daily10

- Choose level 2
- Then multiplication or division

https://www.topmarks.co.uk/Search.aspx?q=year%203

- Select Maths
- Then select Key Stage 2
- Choose a game or skill of you choice.

https://www.bbc.co.uk/bitesize/tags/zmyxxyc/year-3-and-p4-lessons


Well done everyone! Thank you for continuing to work so hard. Remember to photograph a piece of your work and email it to your teacher.
Stay safe and we'll see you soon!