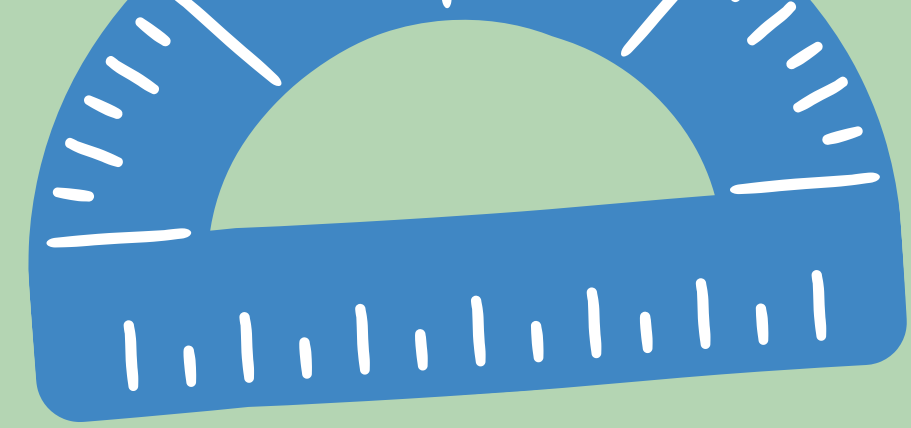# Parts of a Circle

Try to make a circle with your compass!

How to use a compass:

1
Open the arms. Place a pencil in the pencil holder.
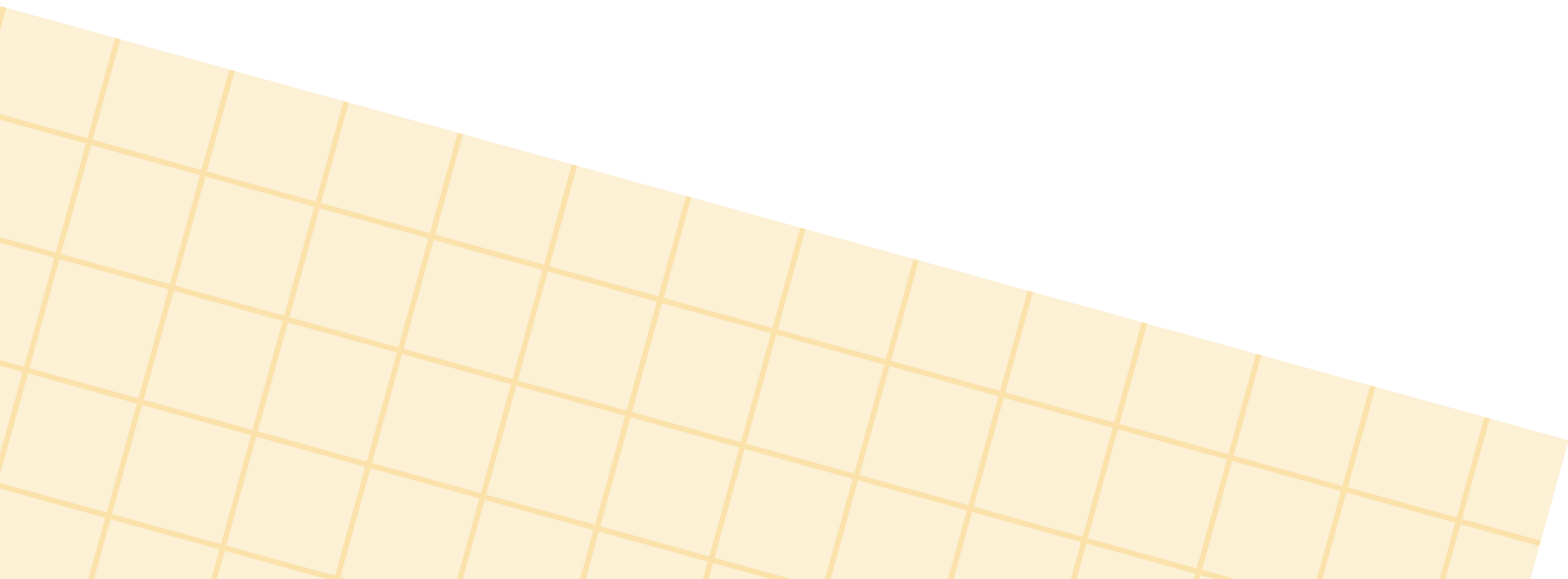
2
Put the needle on the page. Adjust the height of your pencil so that it touches the paper.

3
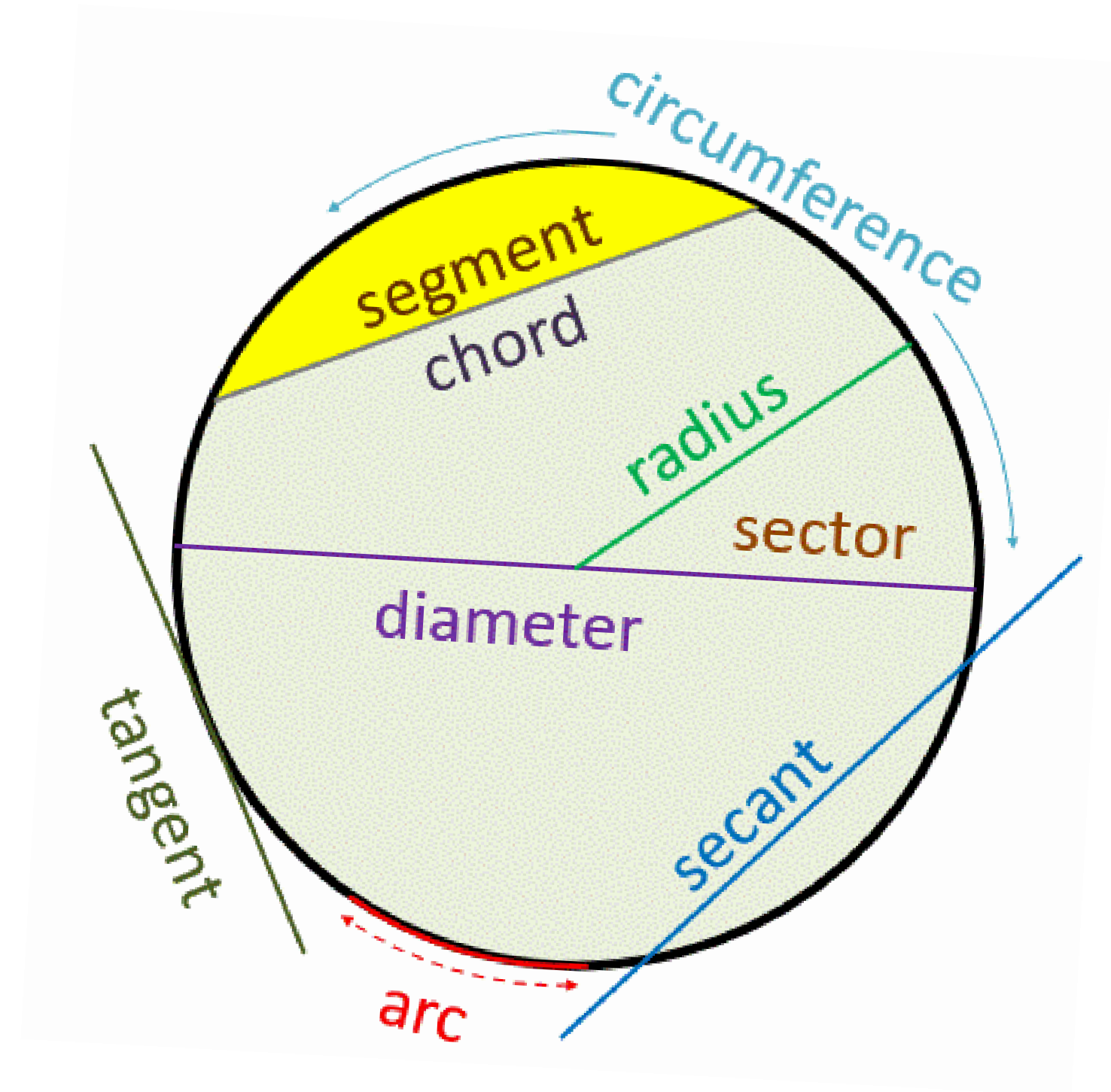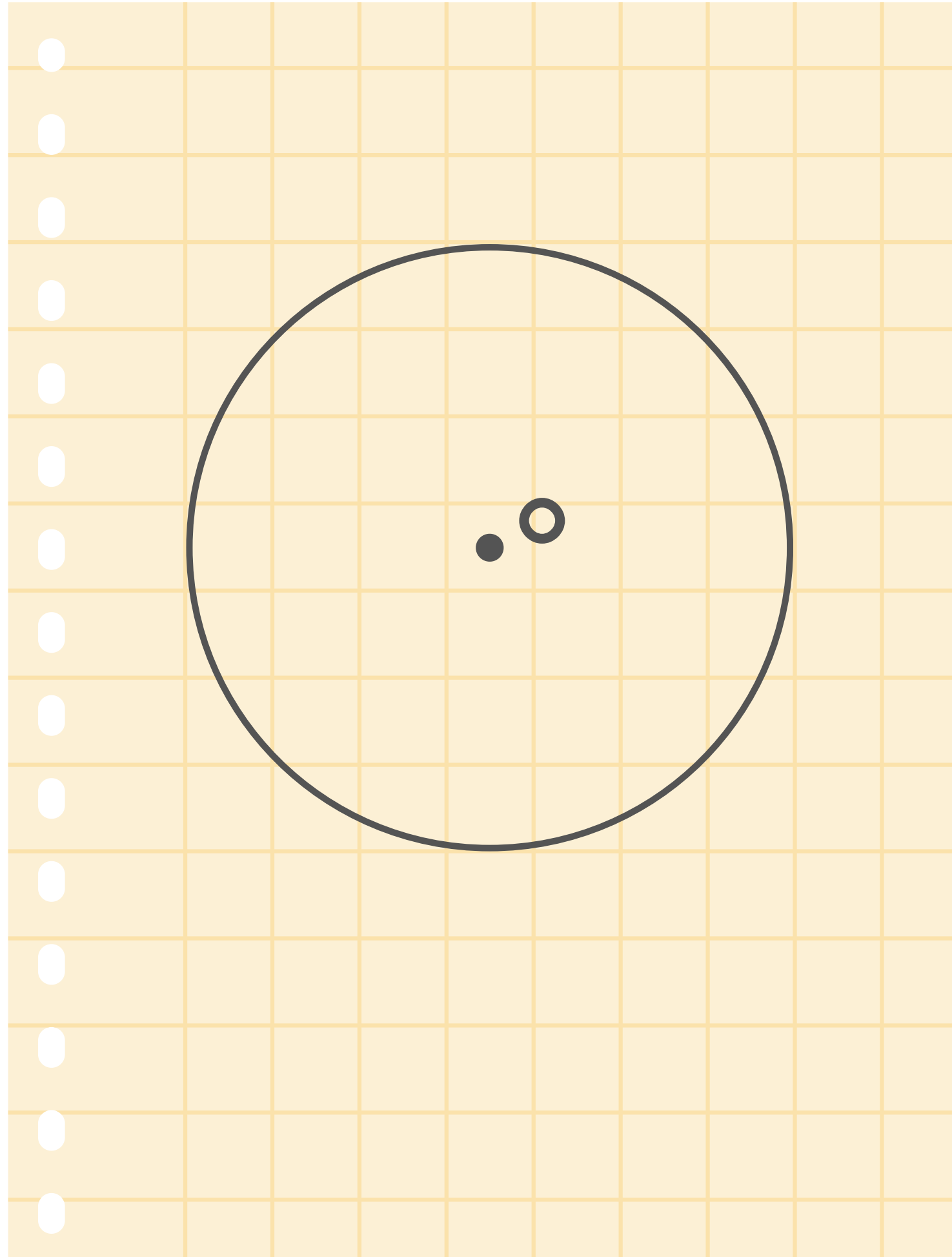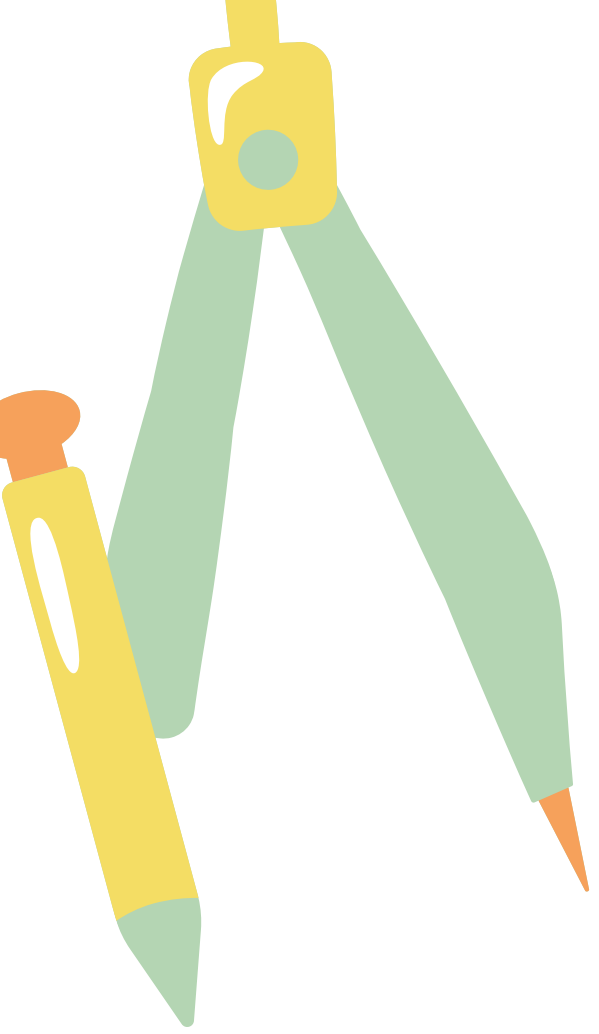Hold the needle in place and rotate your pencil to make a circle.

Try it out!

Draw a circle on the other side of your paper about this big.
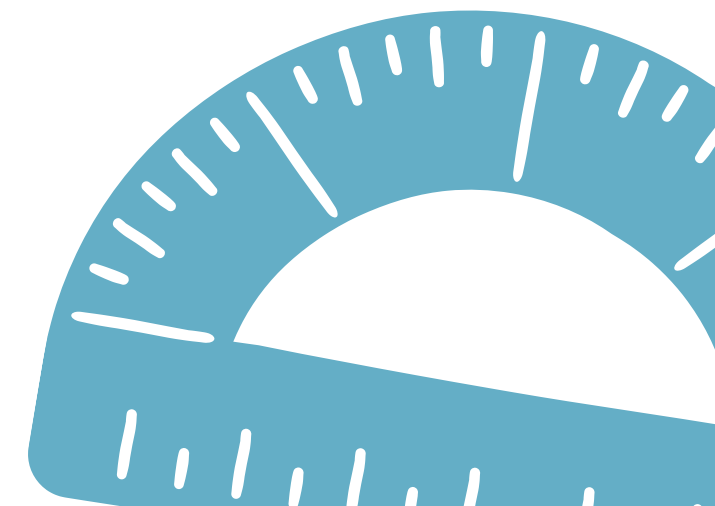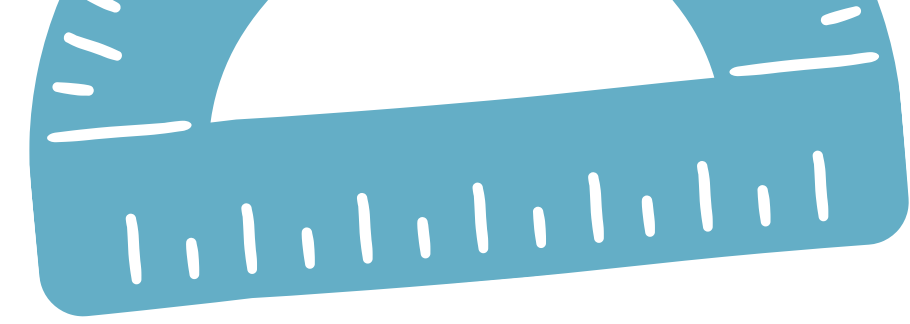
Don't label it just yet!

Circle

A closed curve where all points on the curve are the same distance from the centre (O)
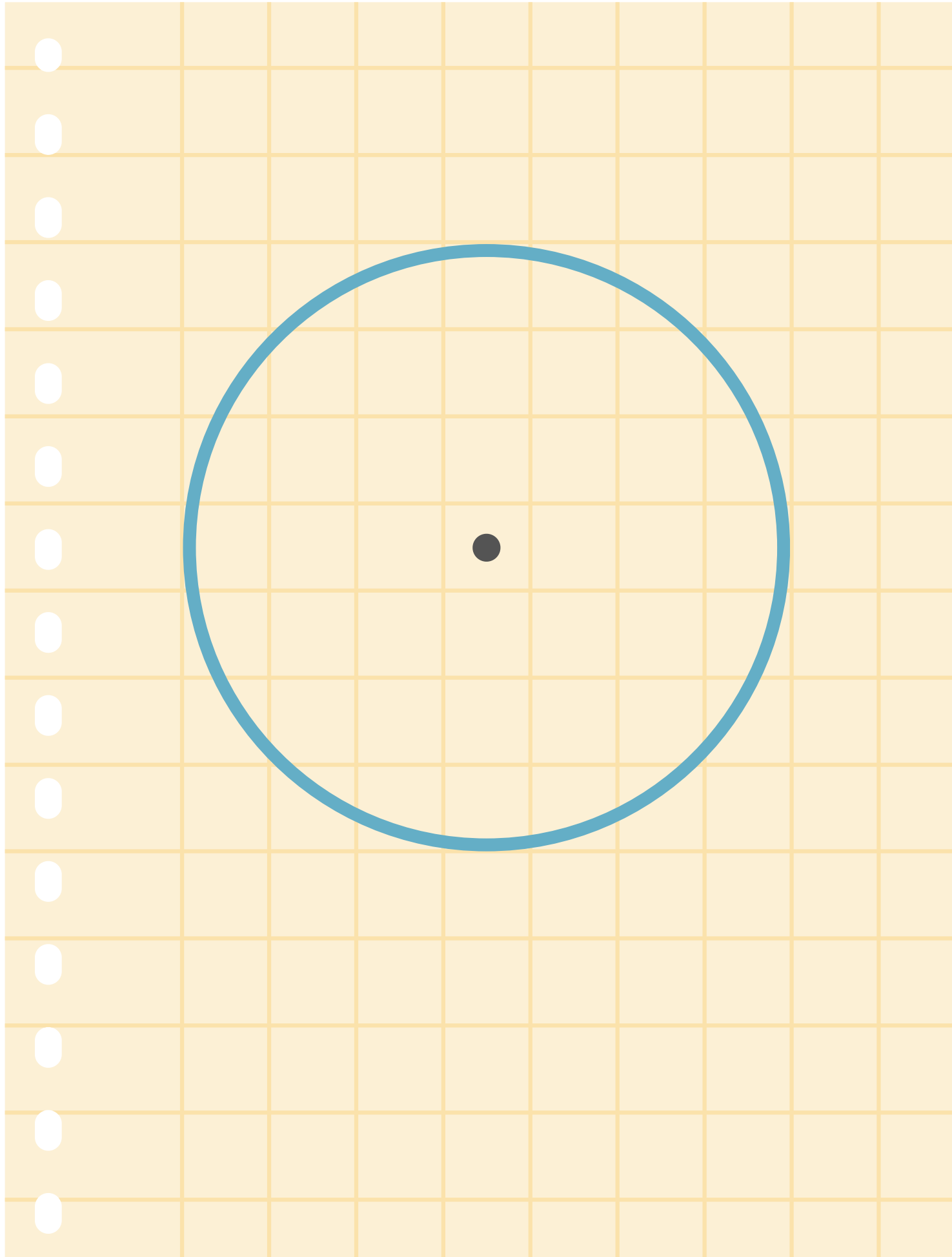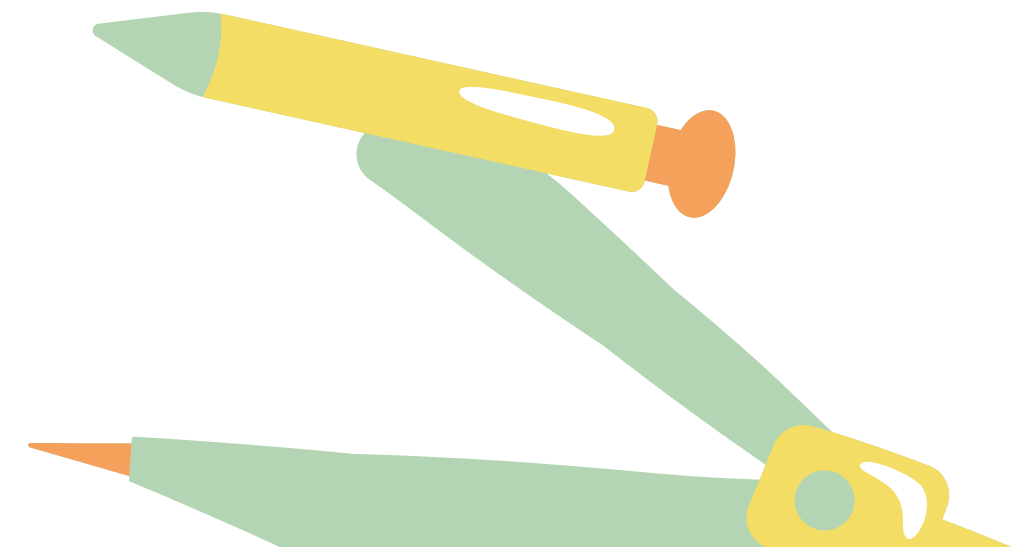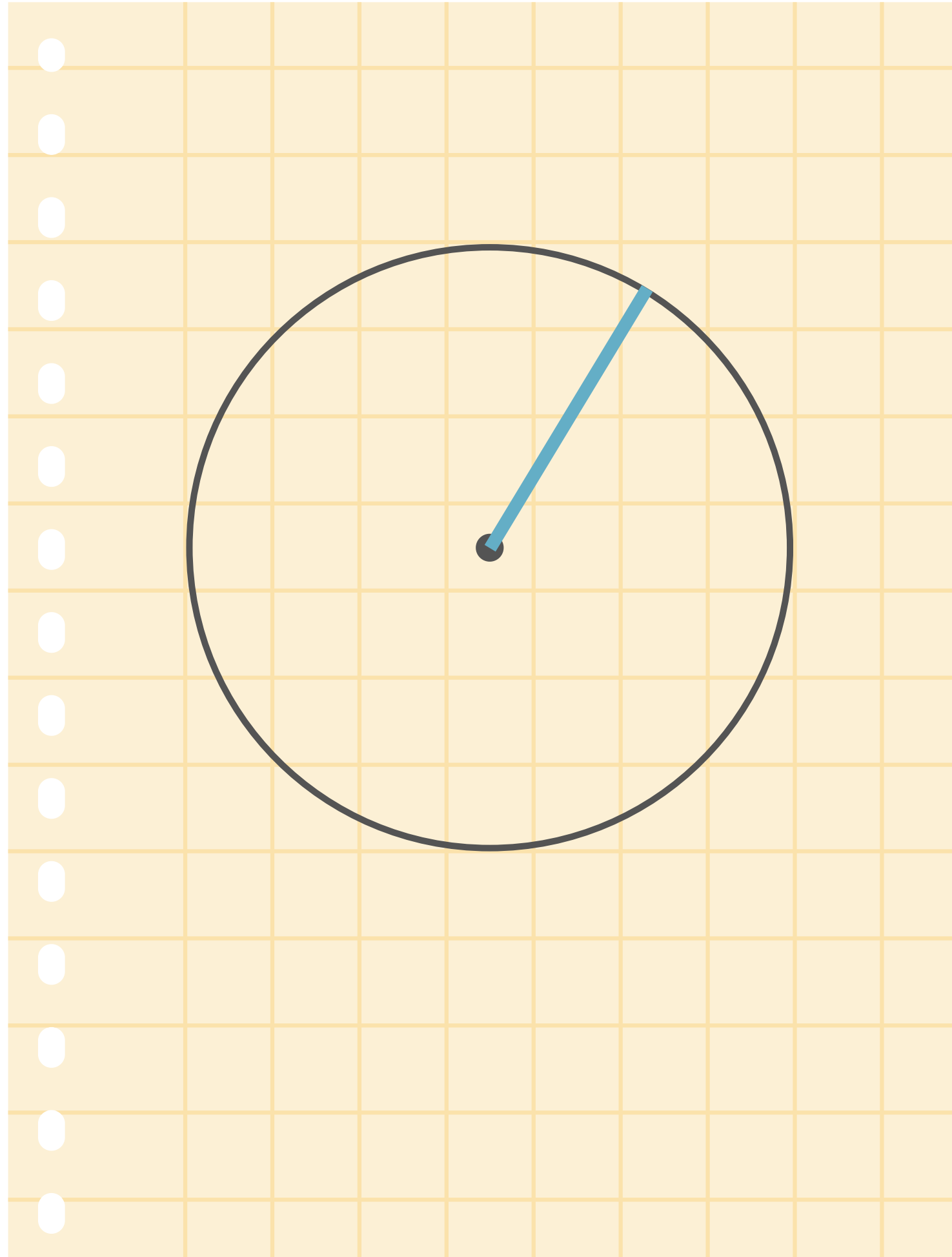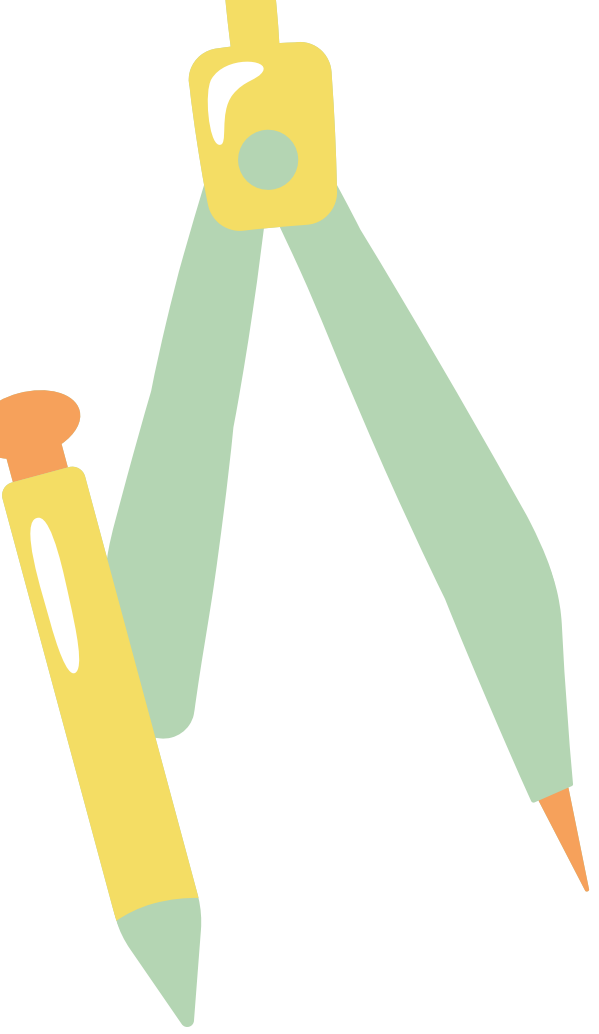
Circumference
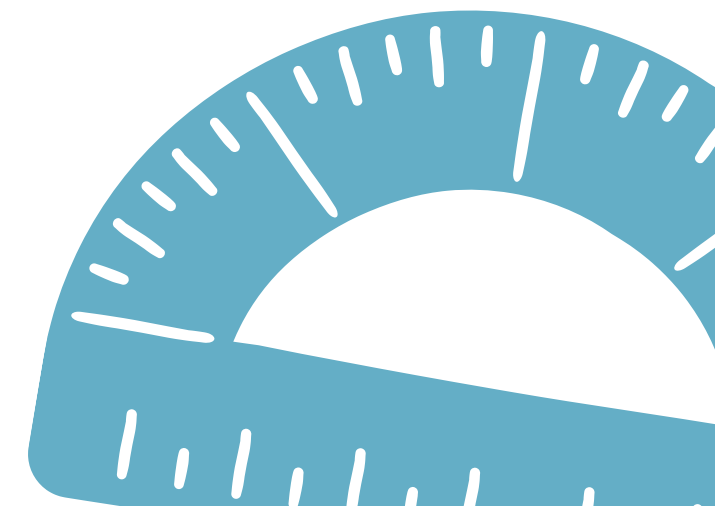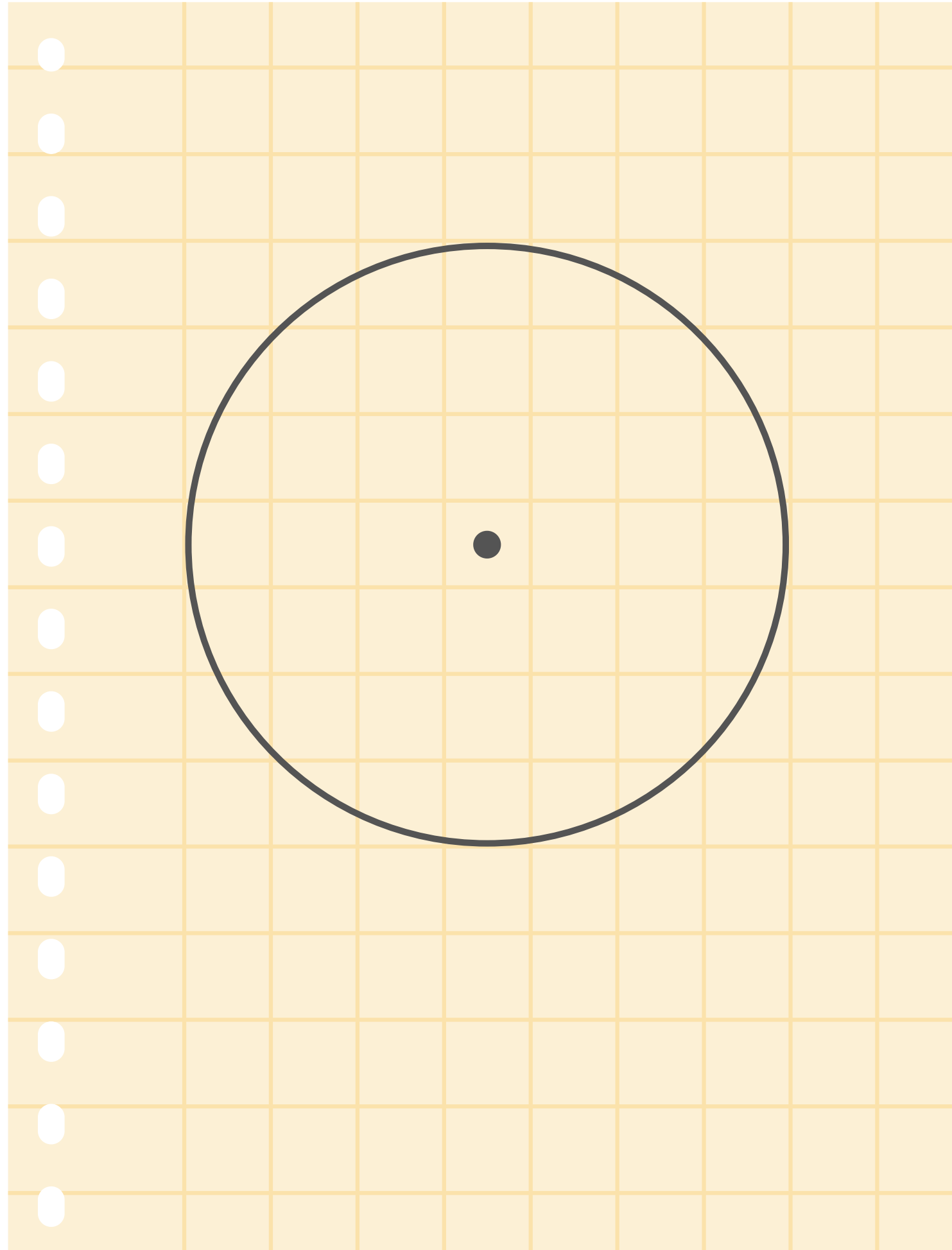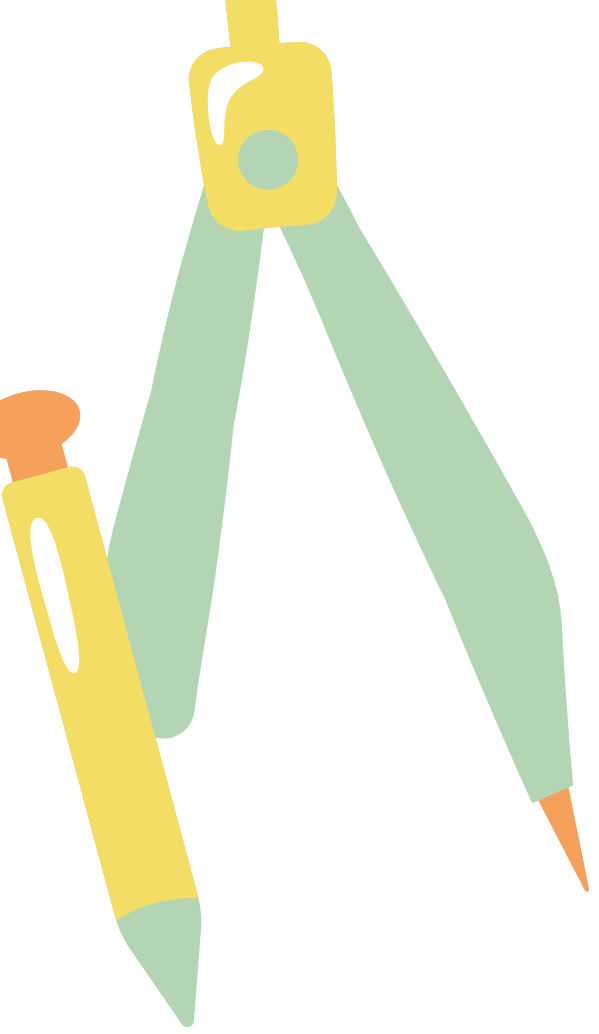
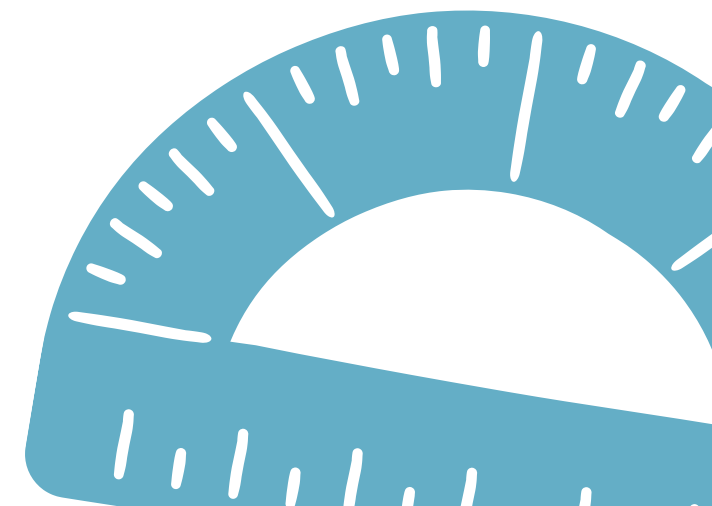The perimeter of a circle

(also known as *C*)

Radius

The straight-line **distance** from the centre to the edge of a circle

(also known as *r*)
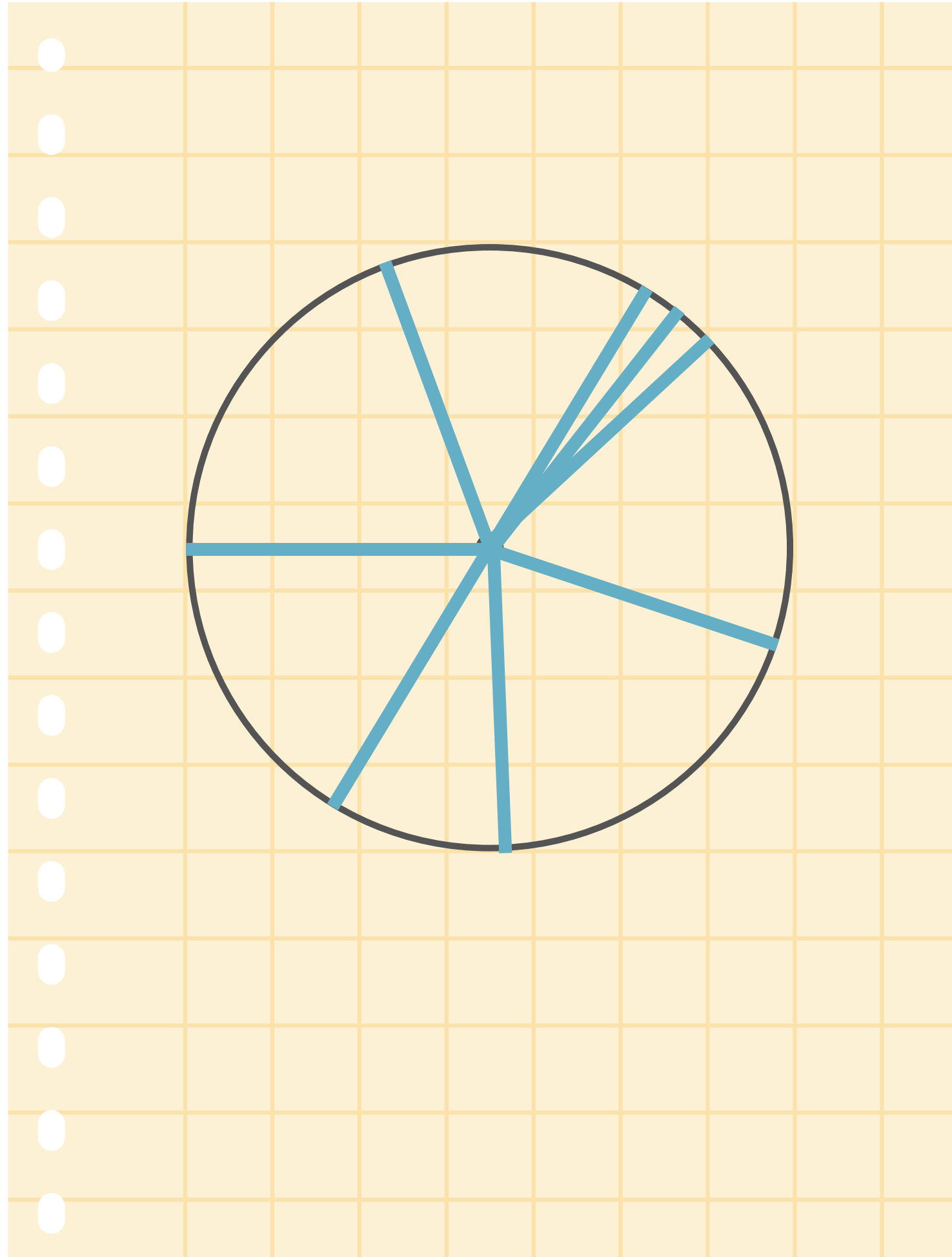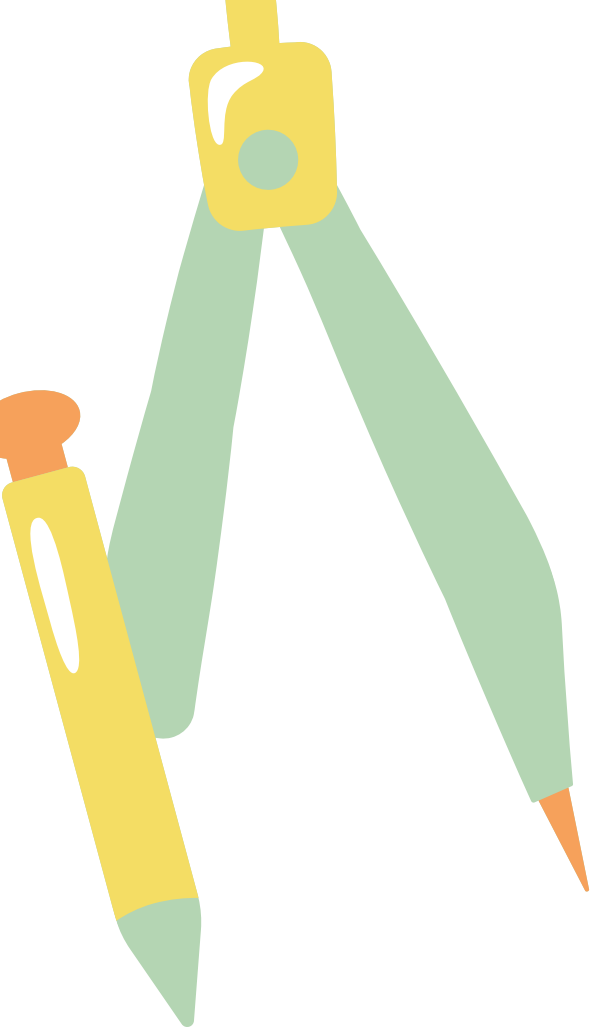
How many radii
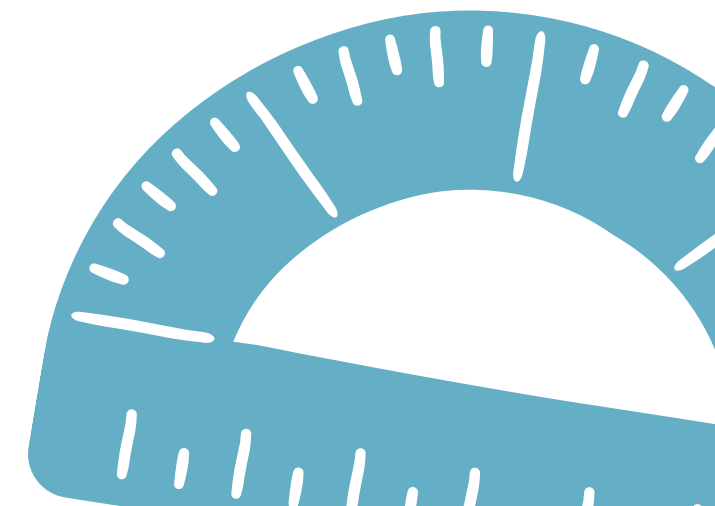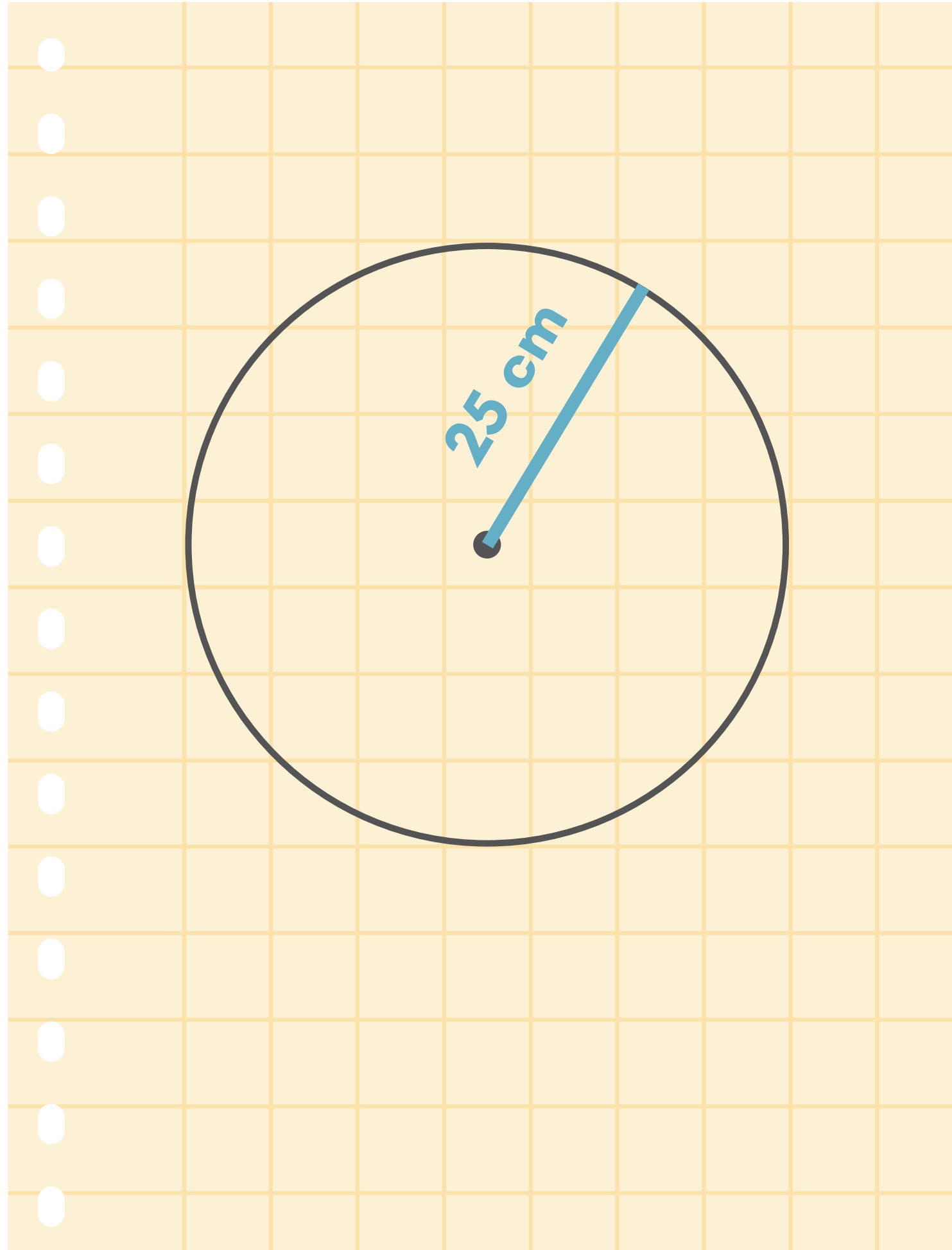(plural of radius)
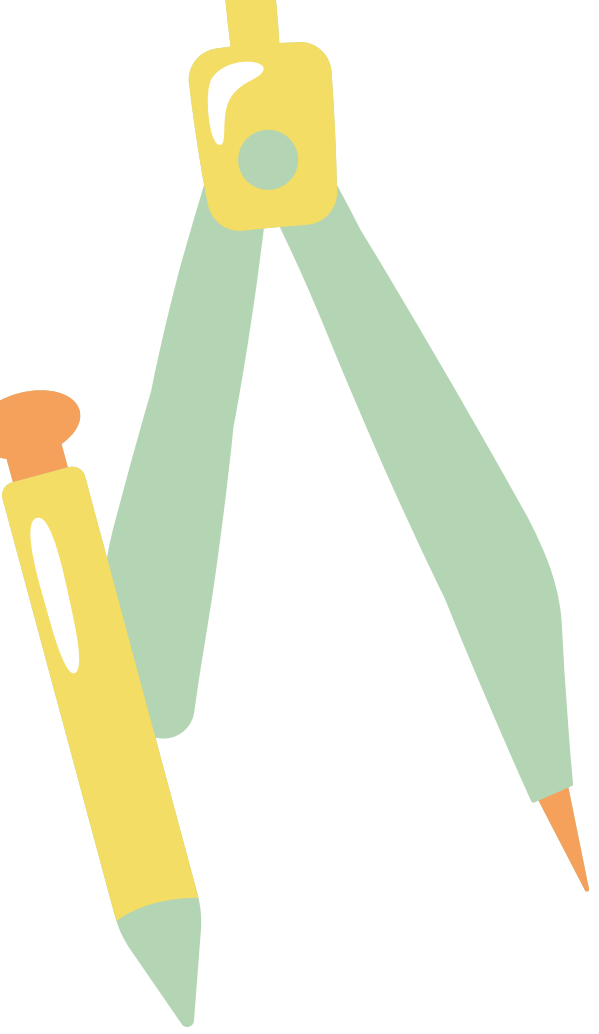does a circle have?
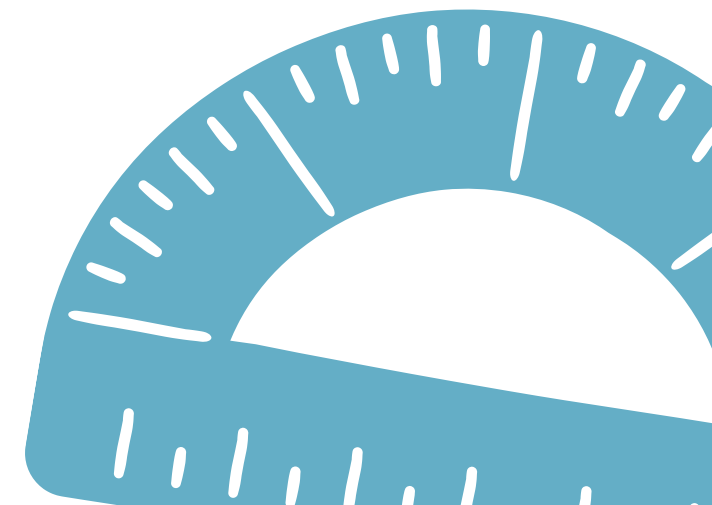
How many radii
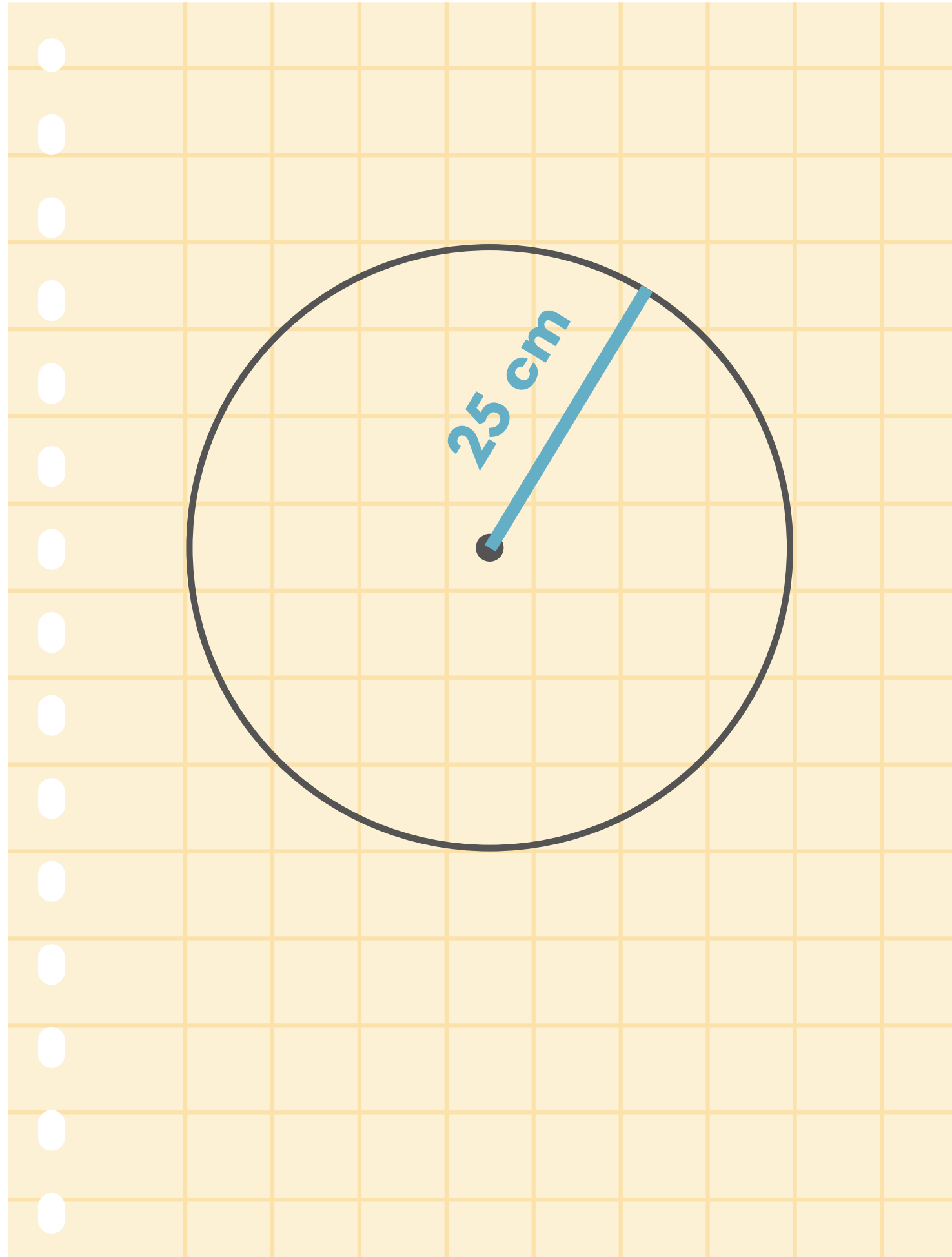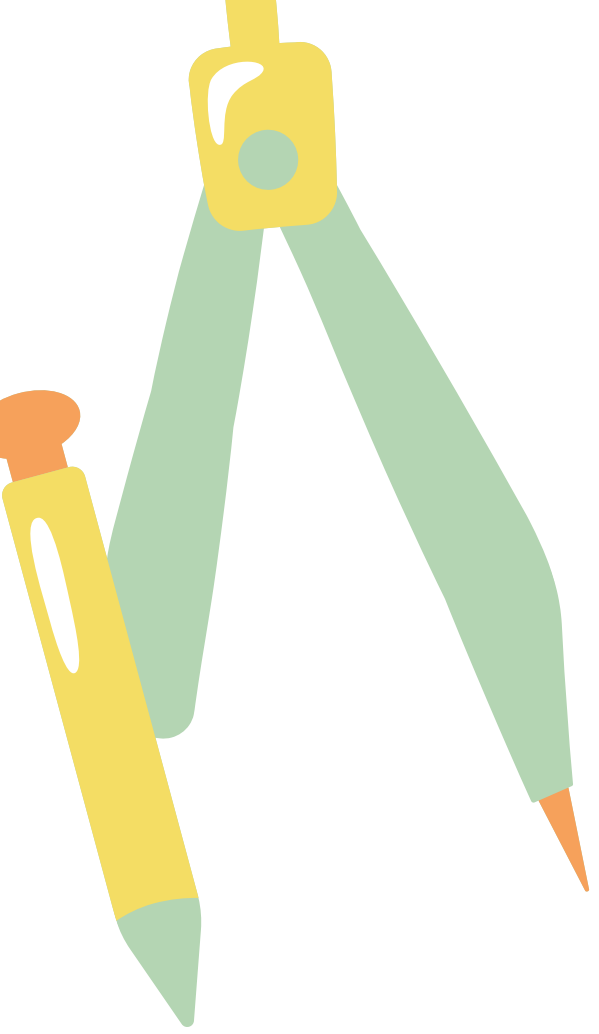(plural of radius)
does a circle have?

Infinity!

**All radii are
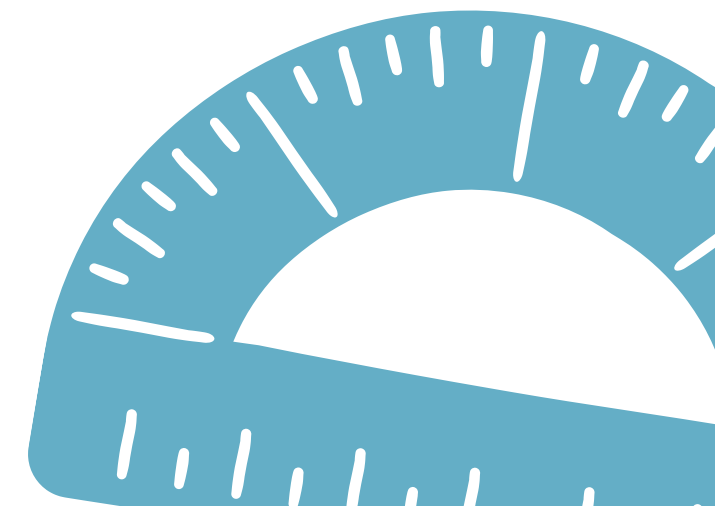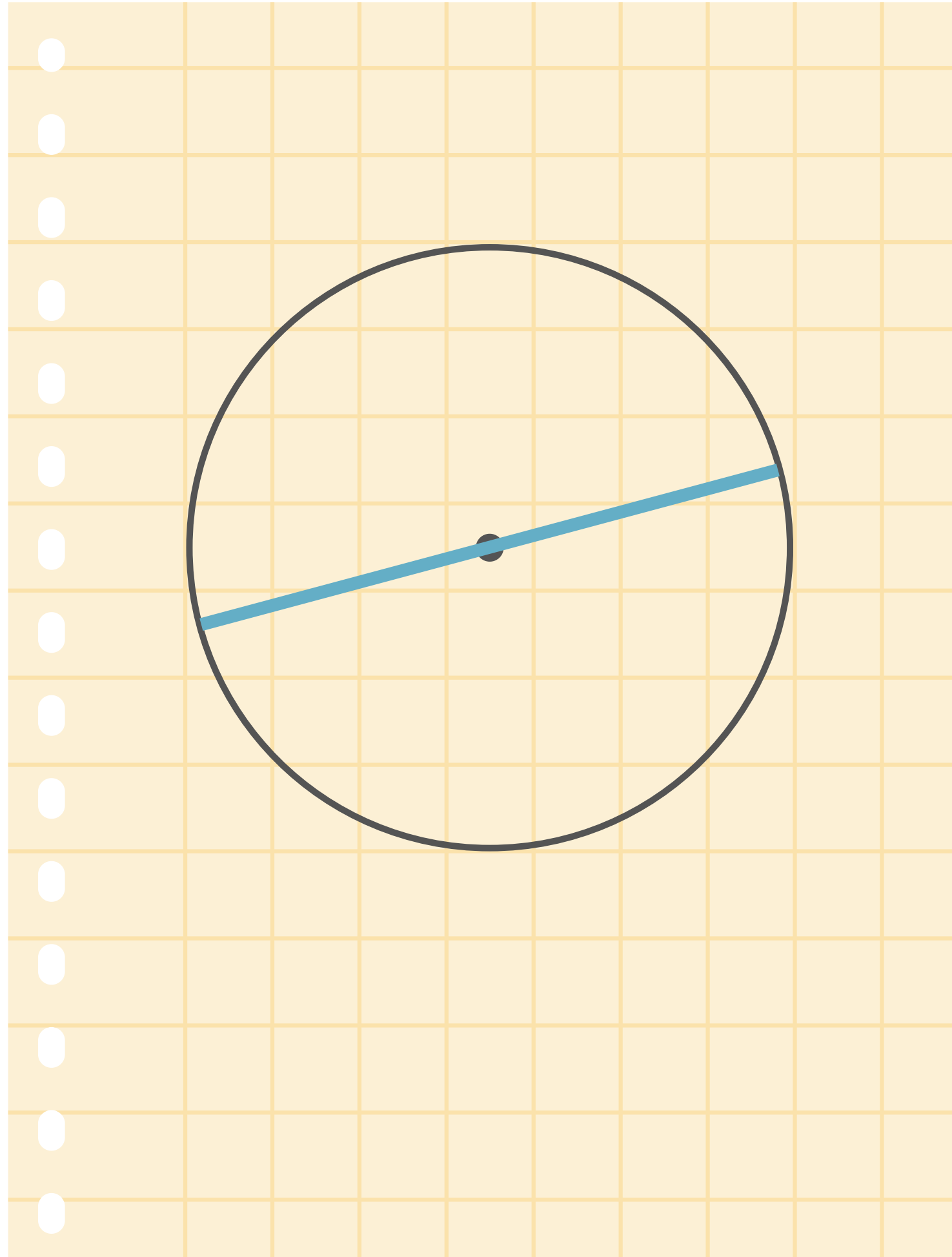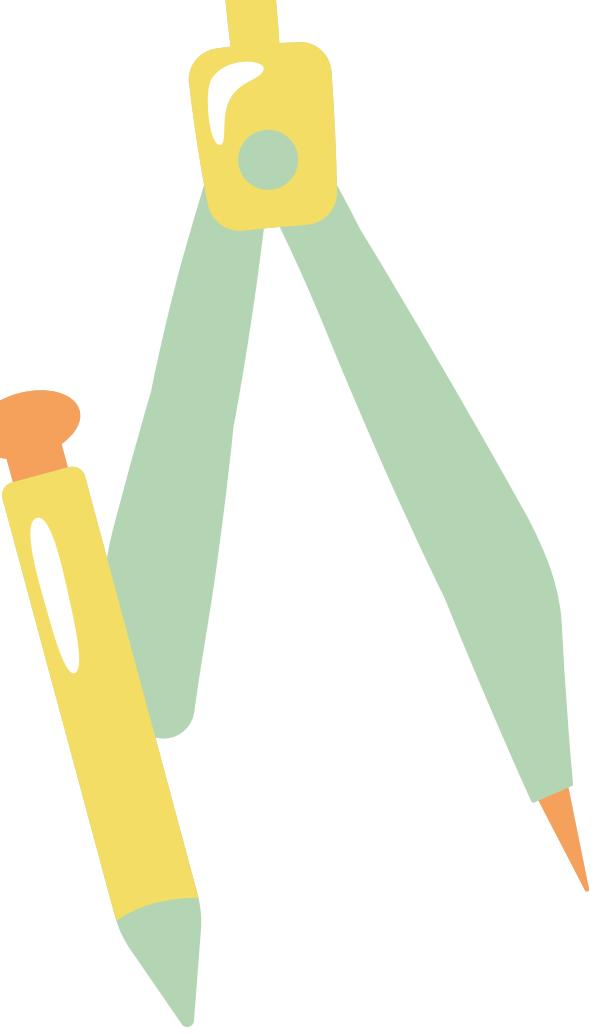equal in length**

25 cm

What is the radius of this circle?
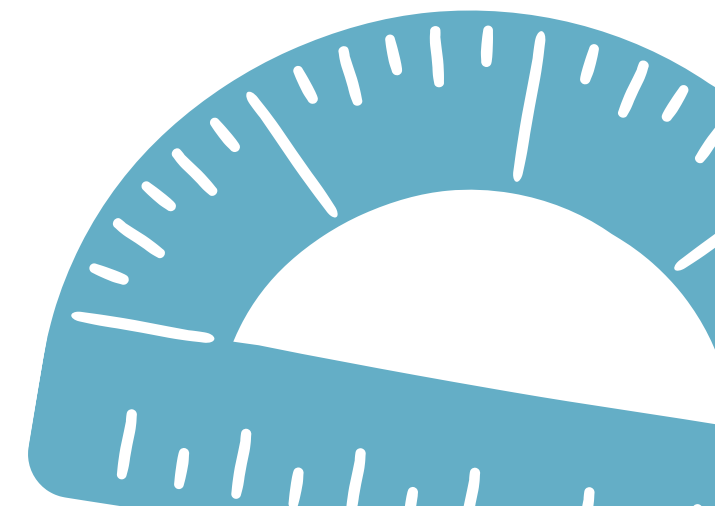
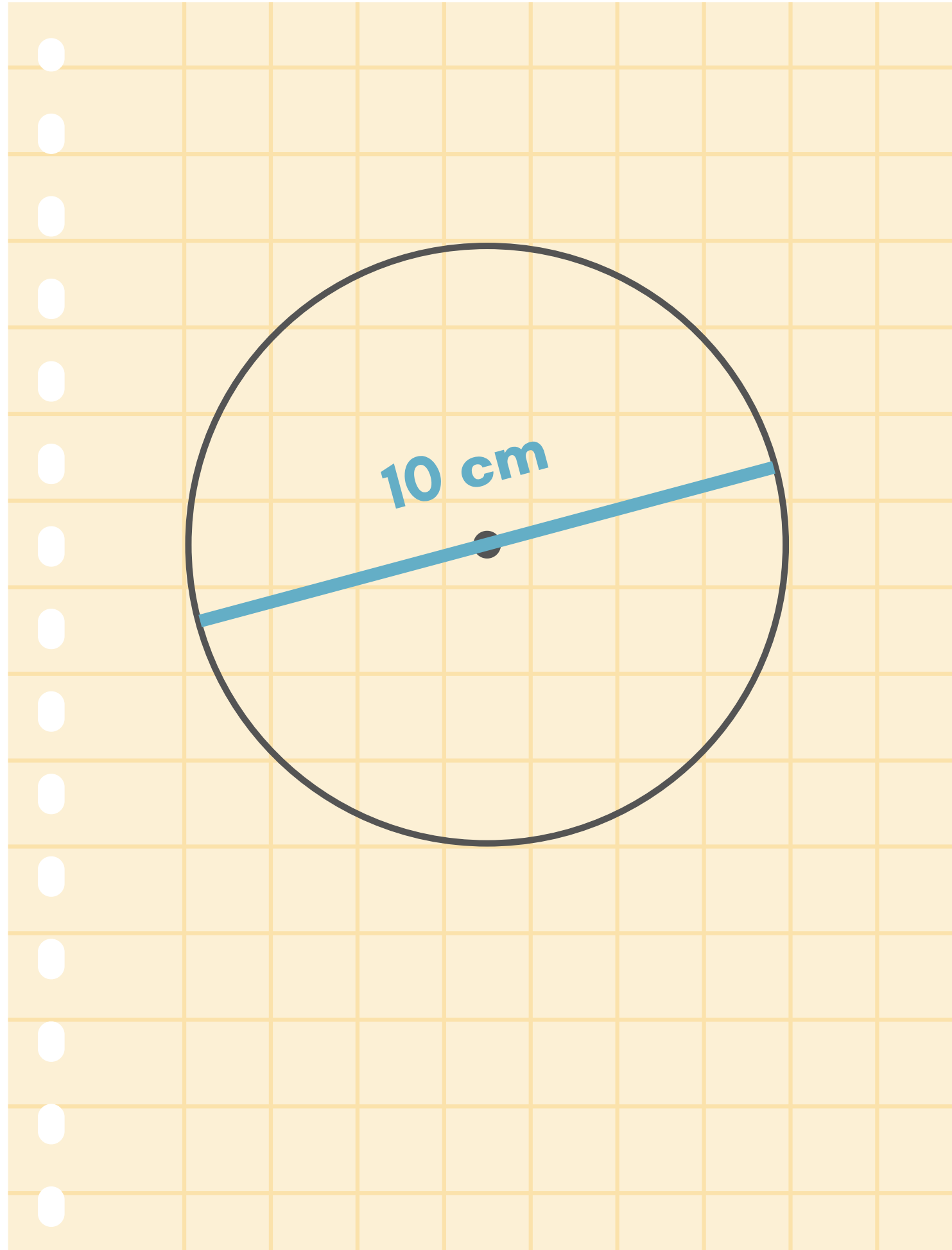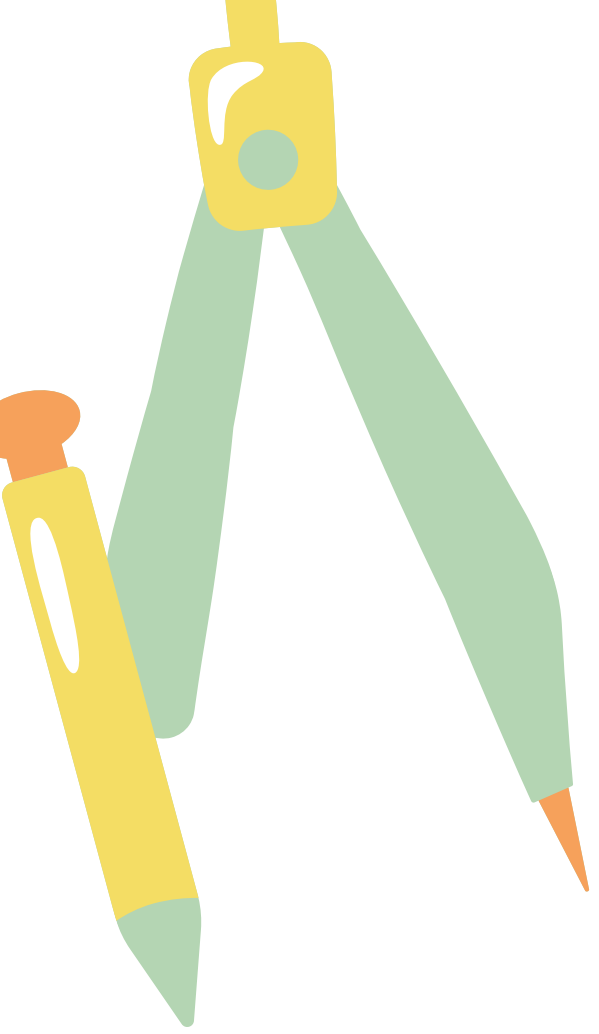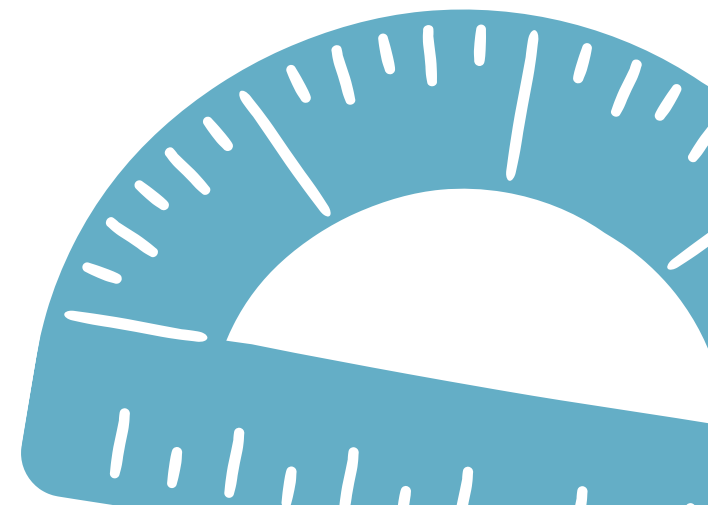What is the radius of this circle?

25 cm

Diameter

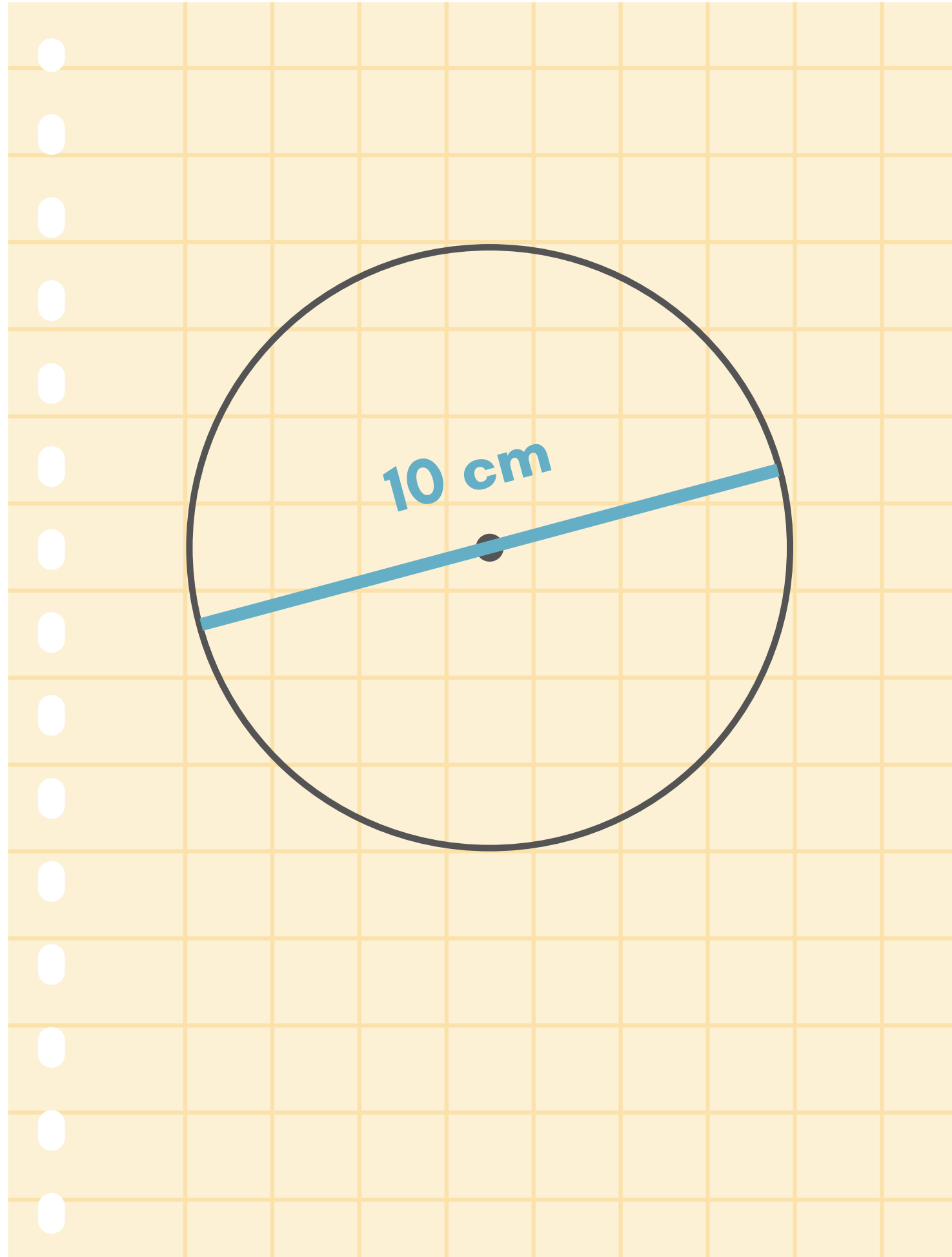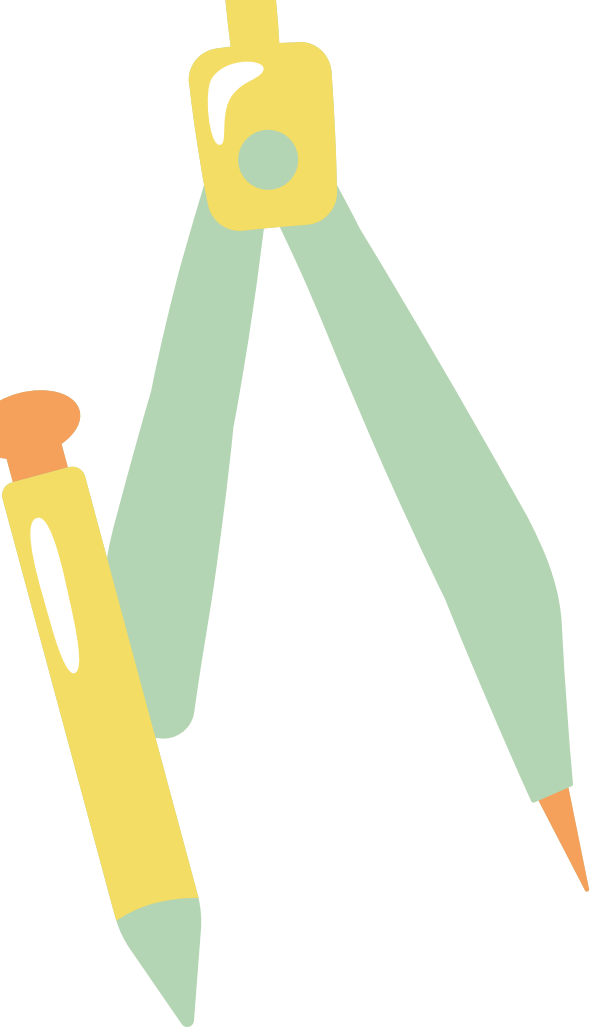The straight-line **distance** from one side of a circle, through the centre, to the other
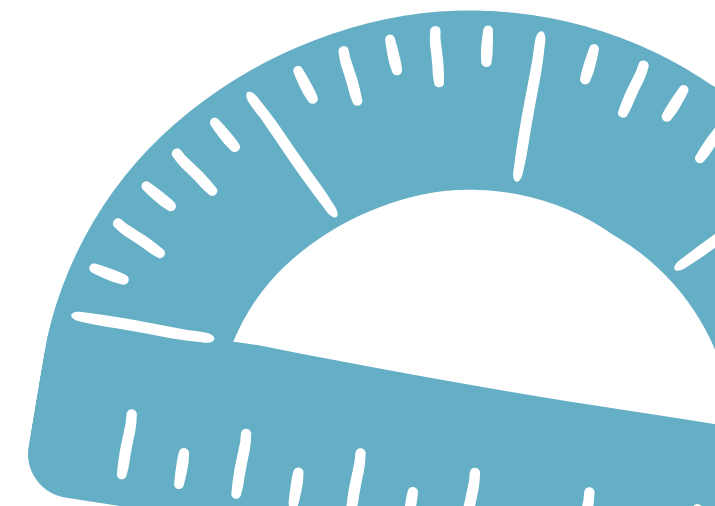
(also known as *d*)

10 cm

What is the diameter of this circle?

What is the diameter of this circle?

10 cm

25 cm

What is the diameter of this circle?
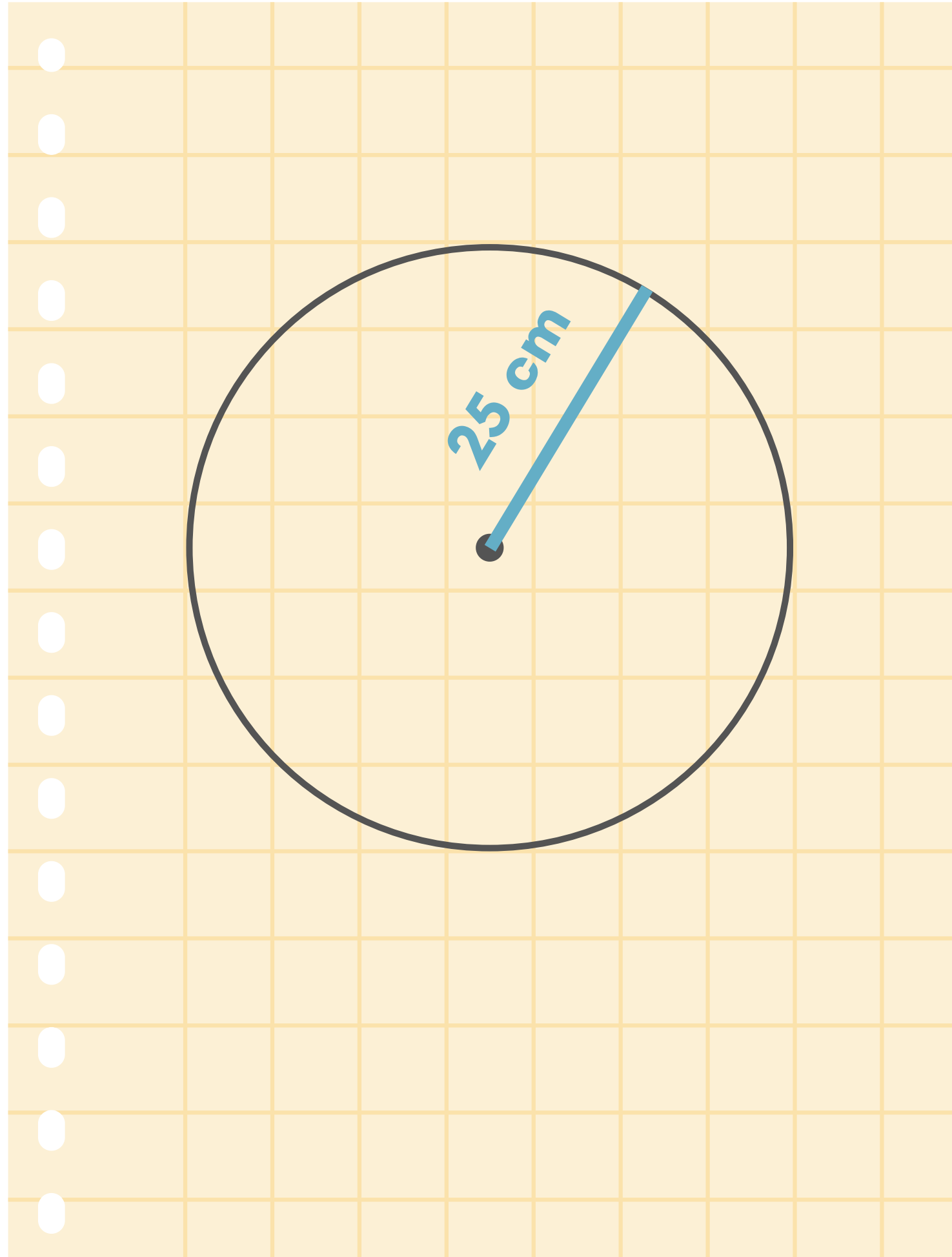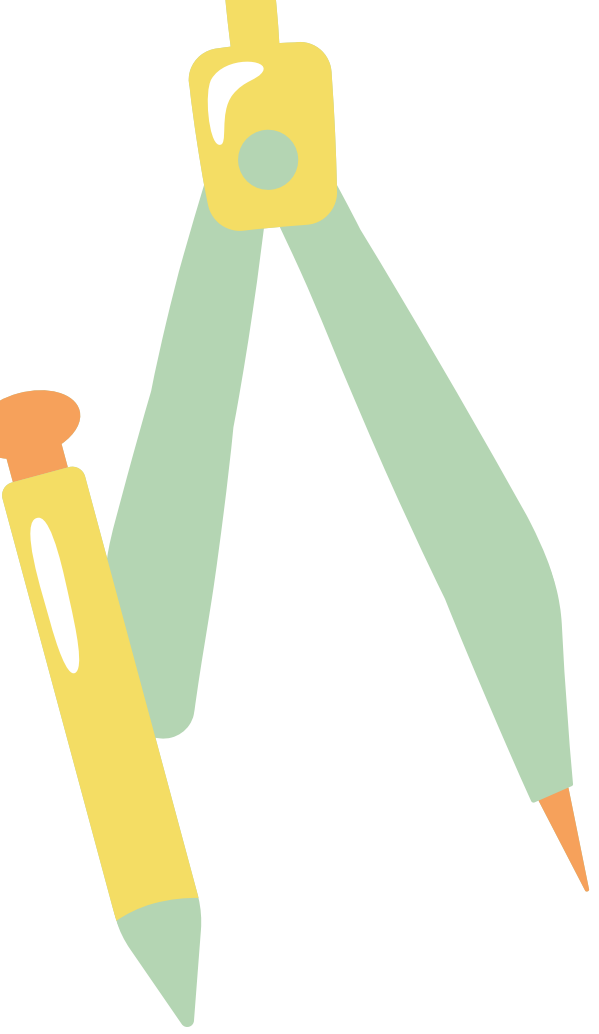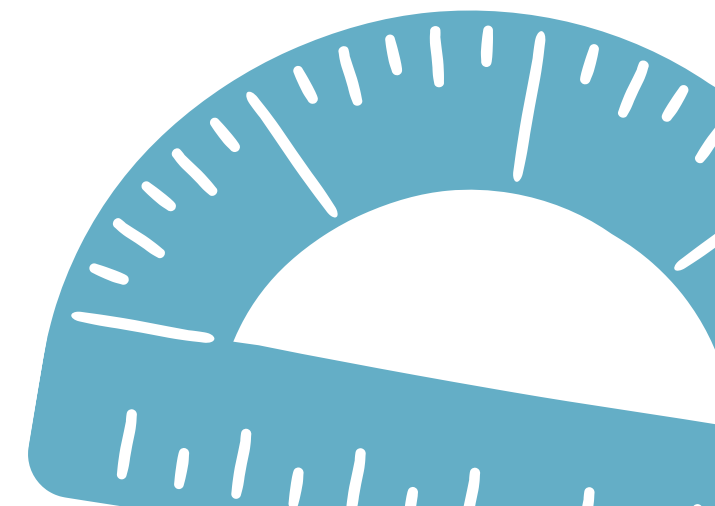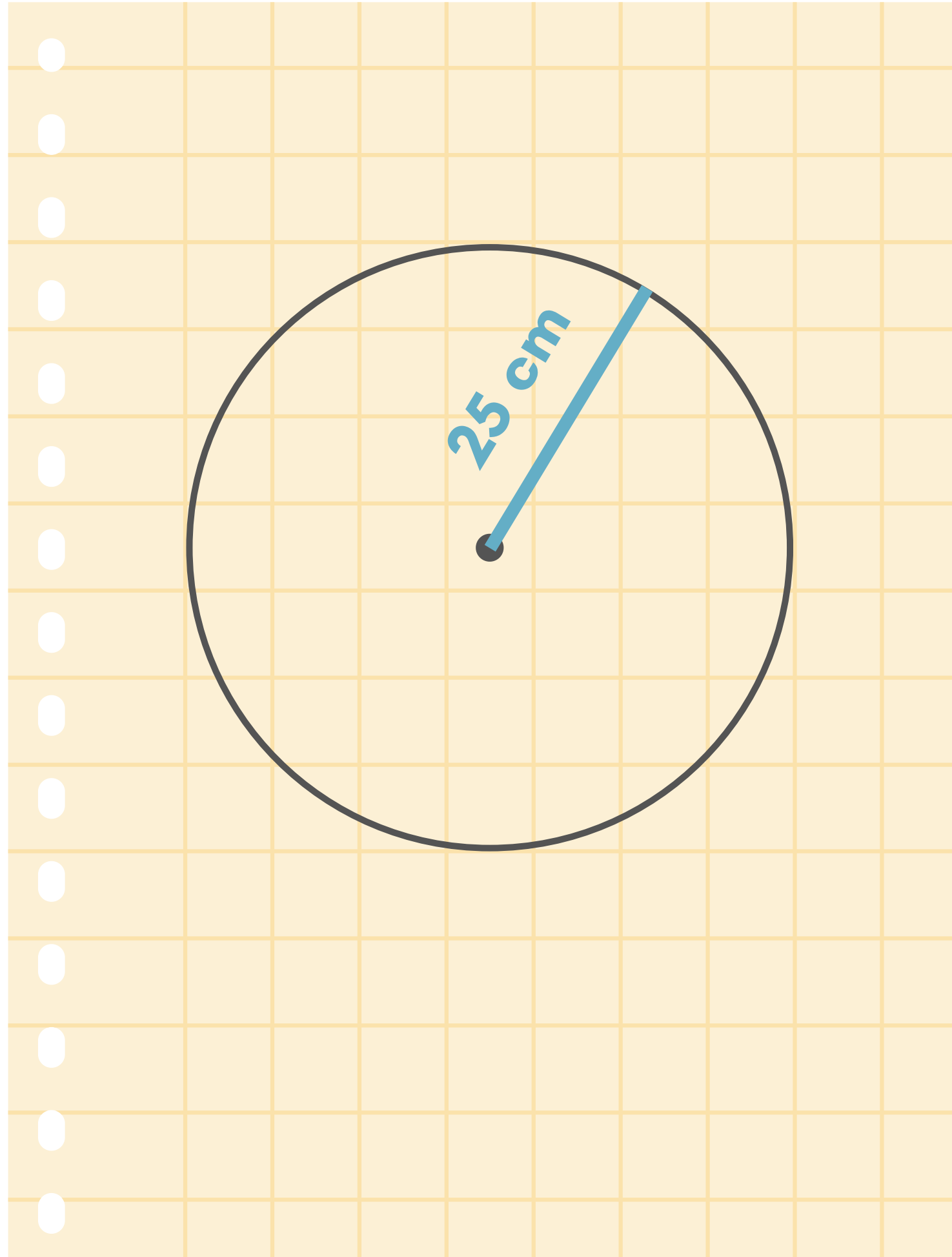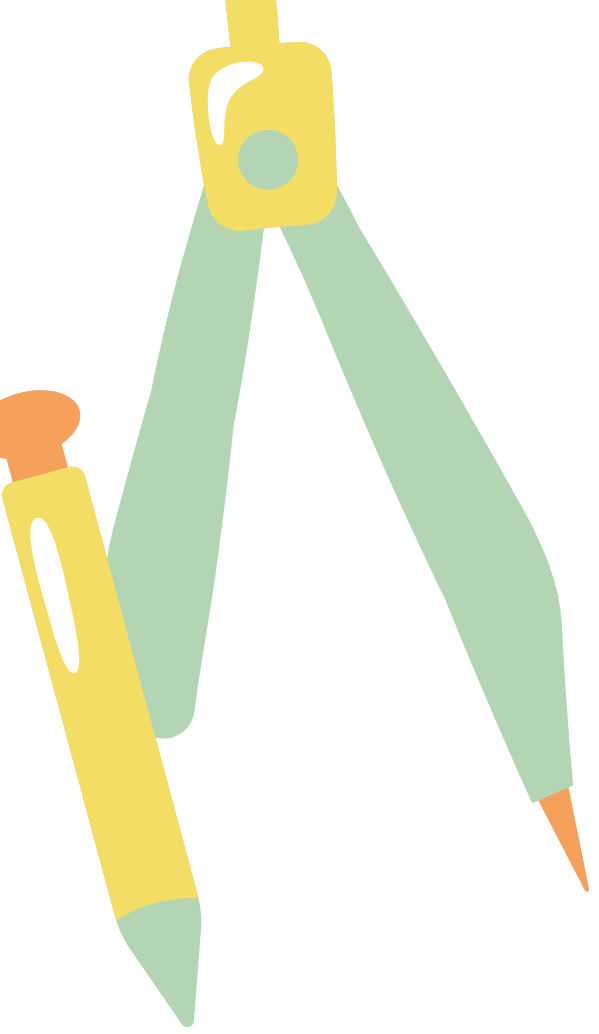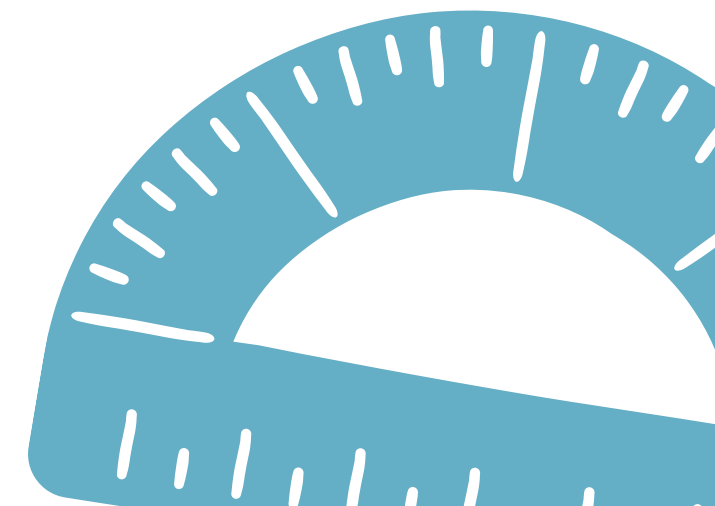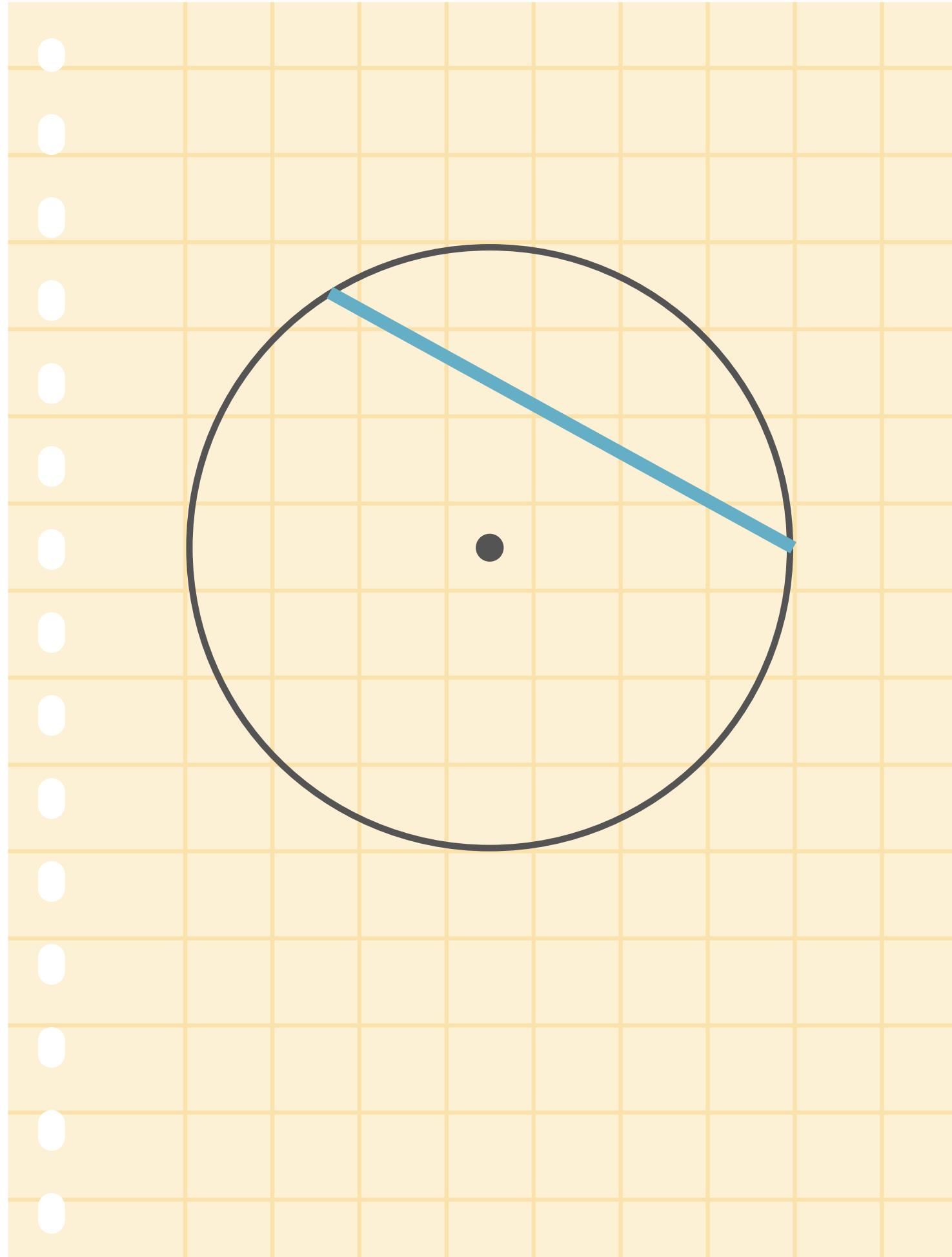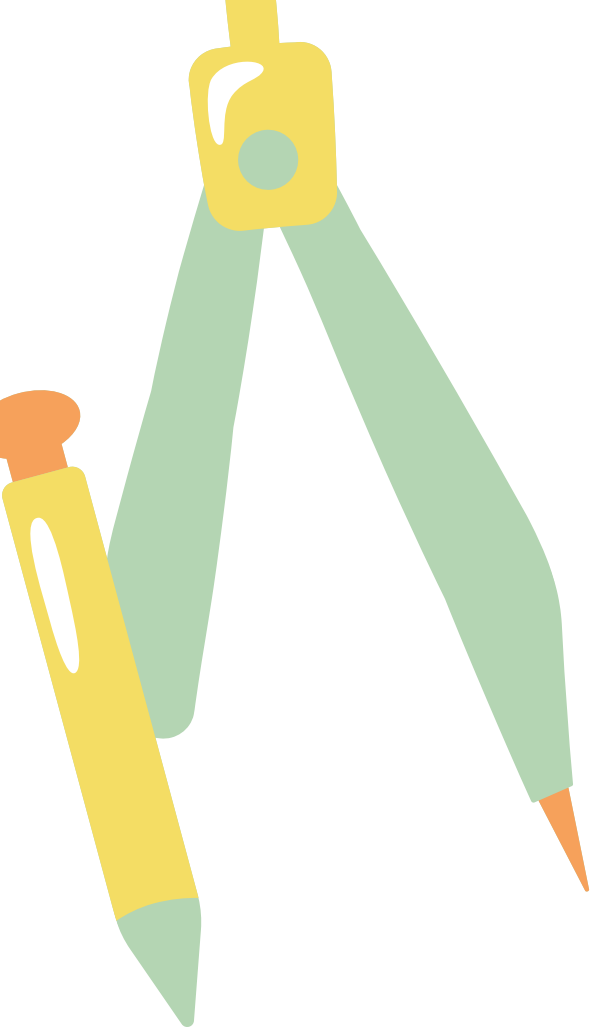
What is the diameter of this circle?

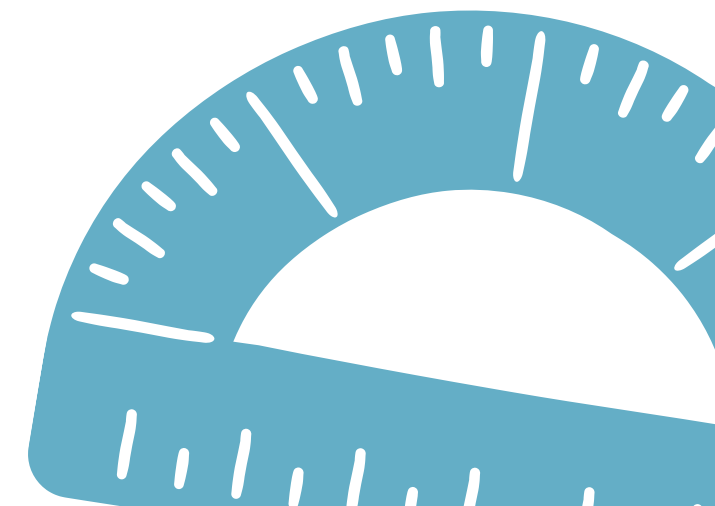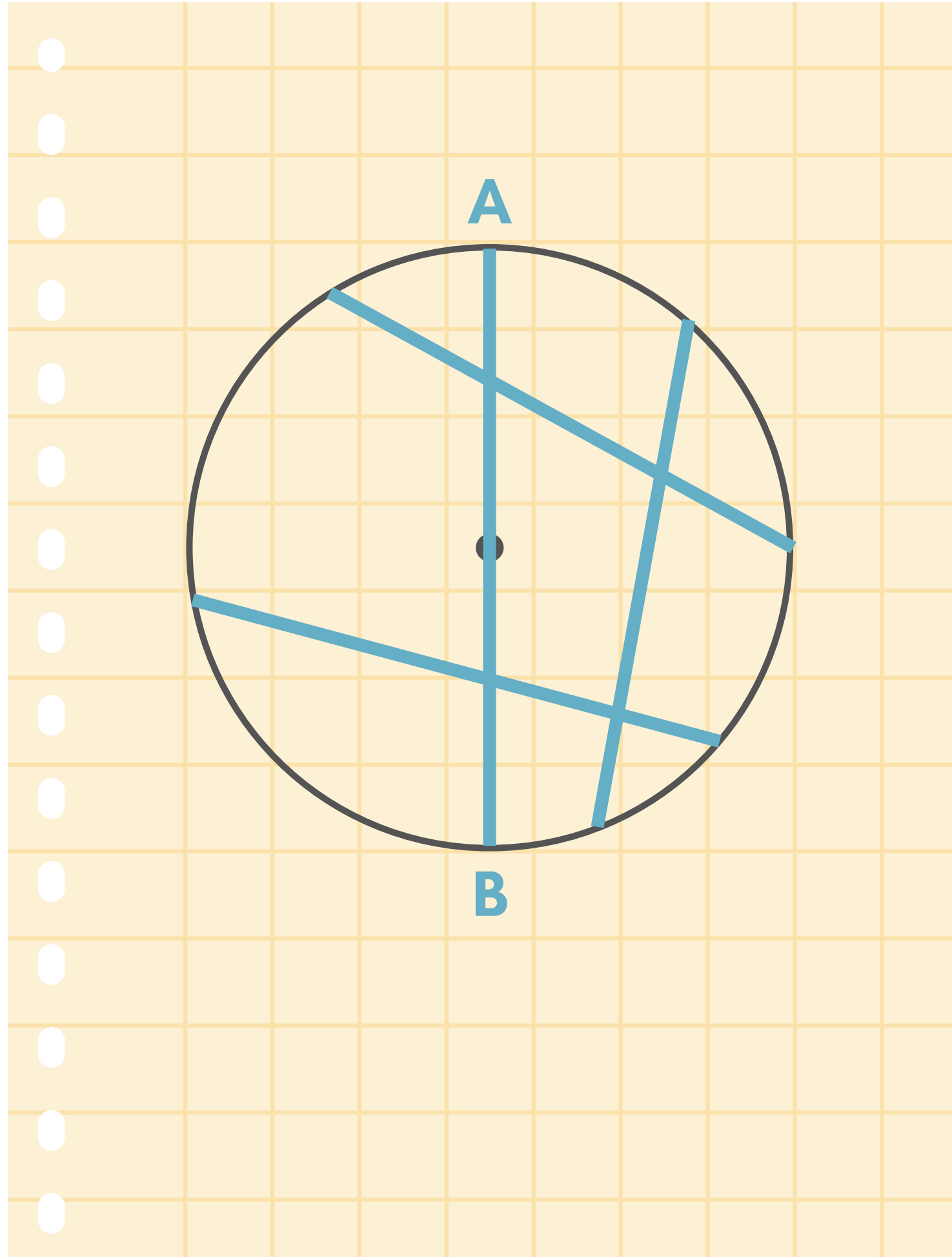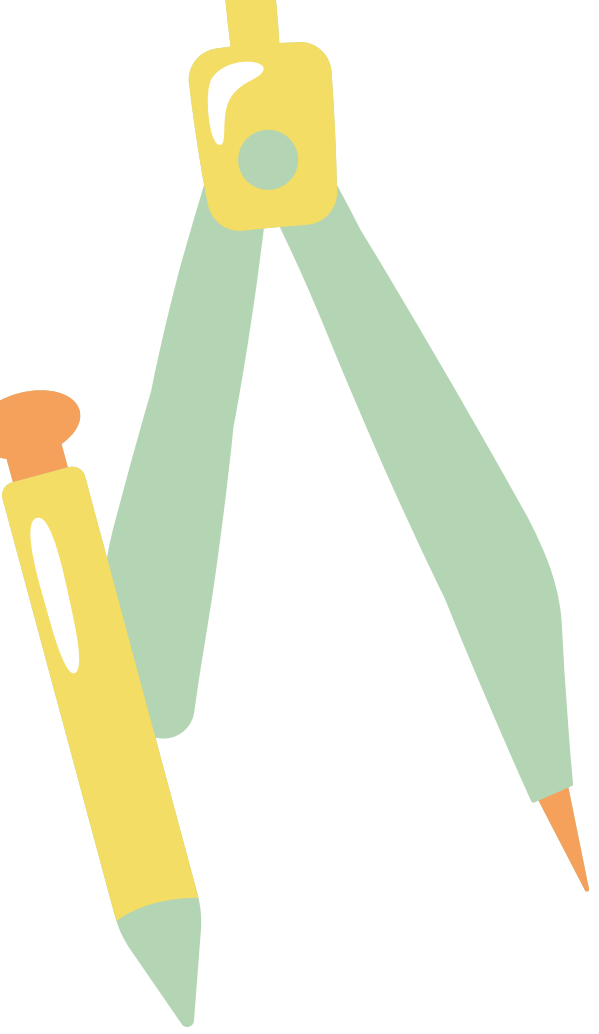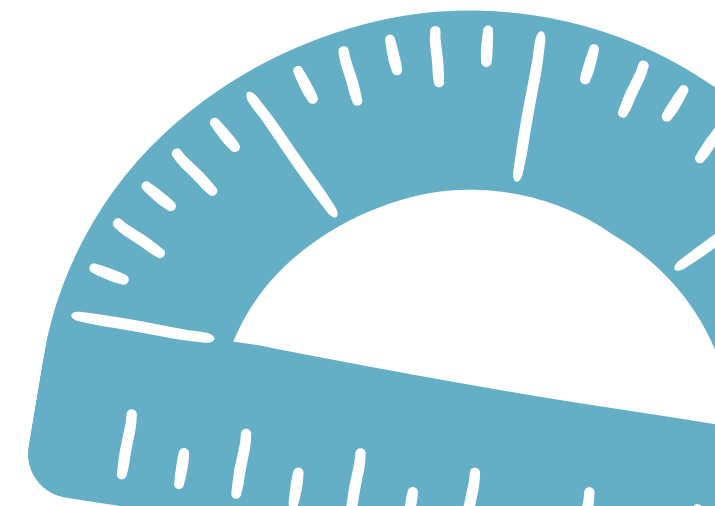$d = 2r$
$= 2(25 \text{ cm})$
$= 50 \text{ cm}$

Chord

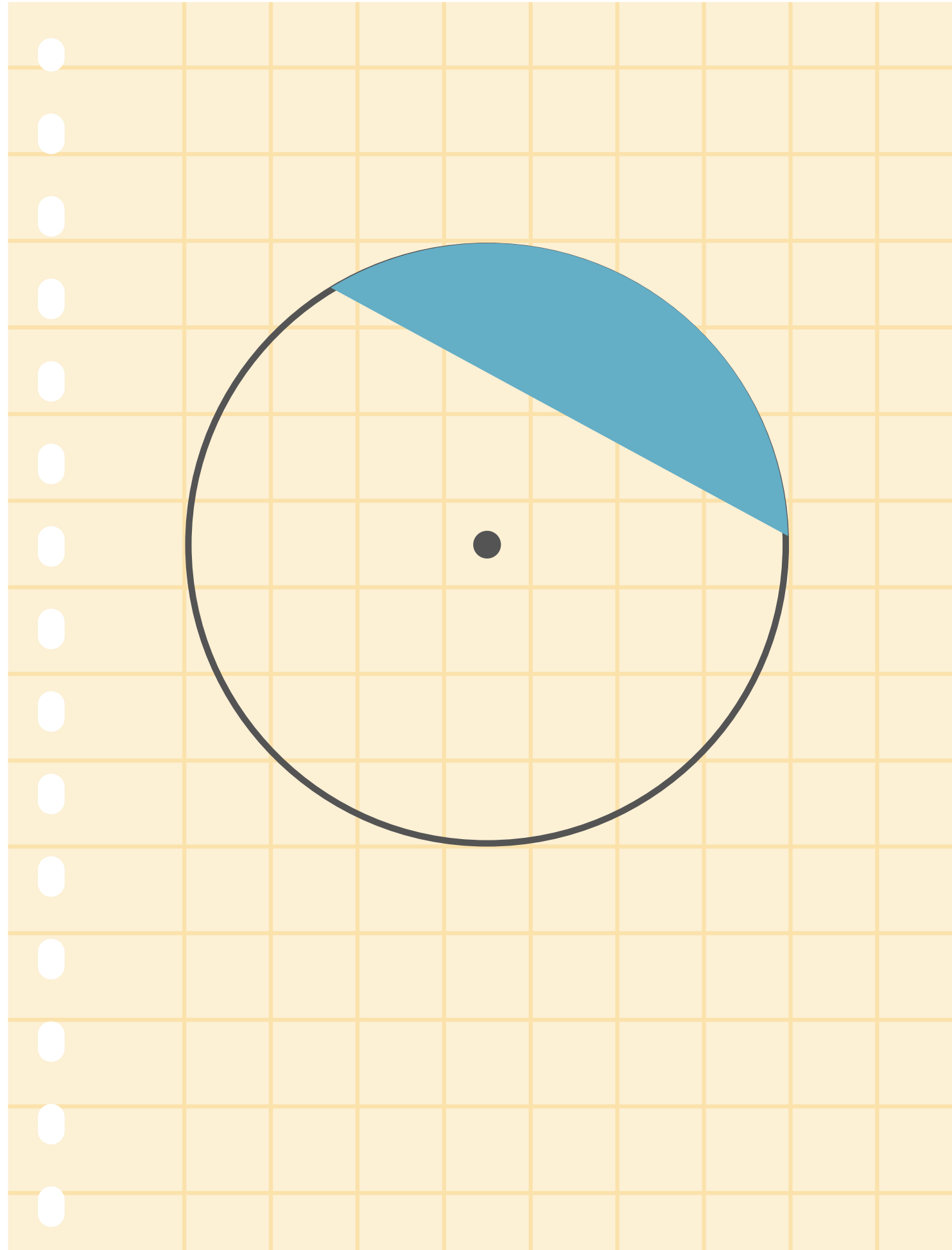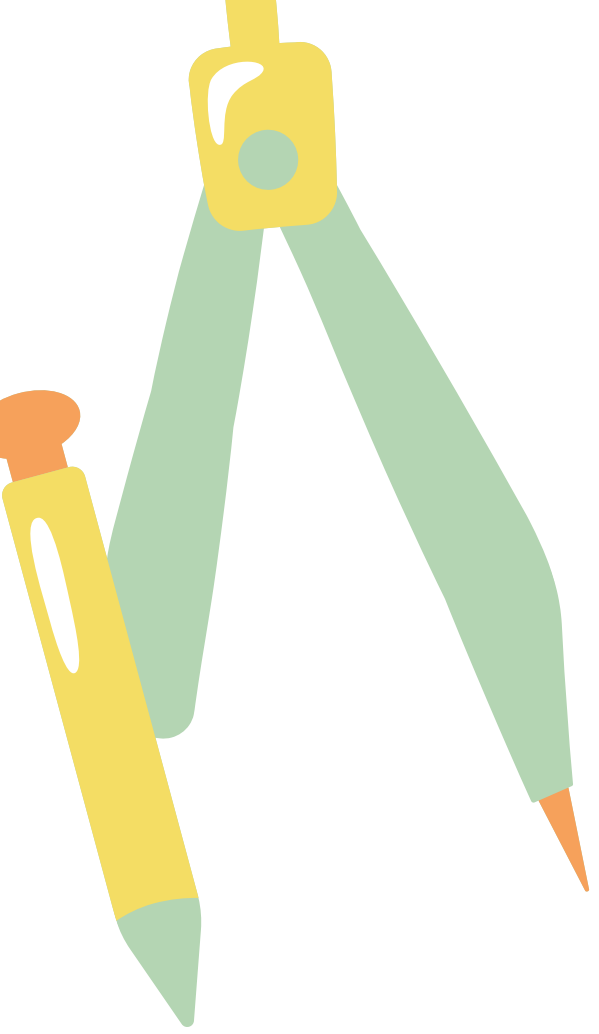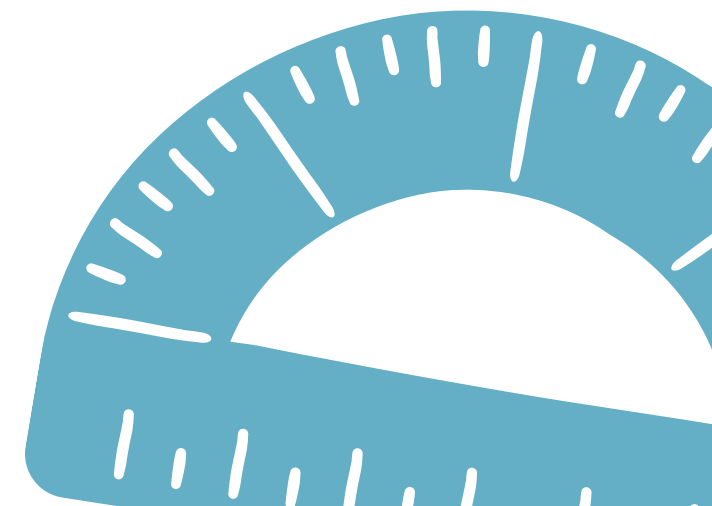Any straight **line** that starts at one point on the circle and ends at another point on the circle

Chord

* The diameter is a chord, but not every chord is the diameter

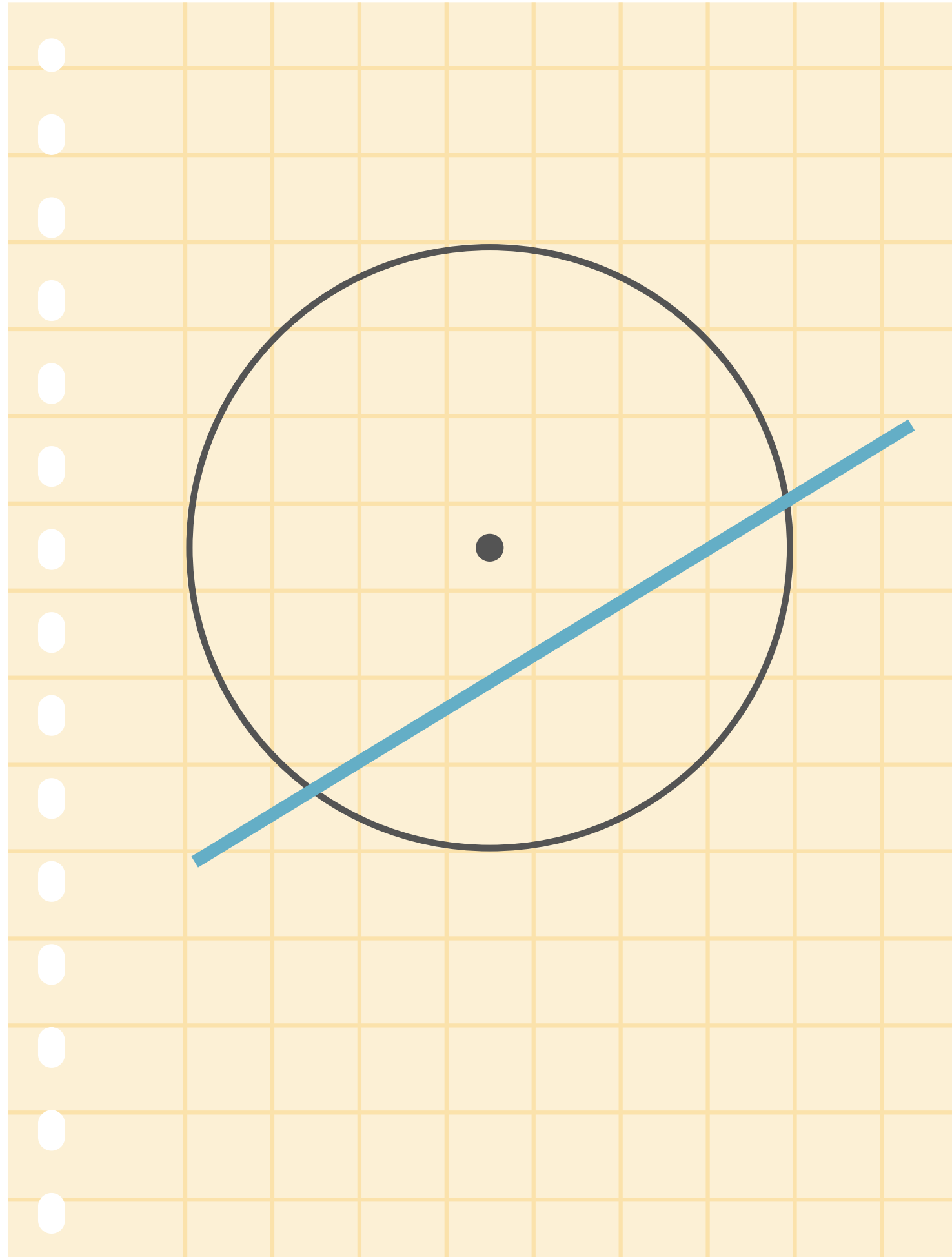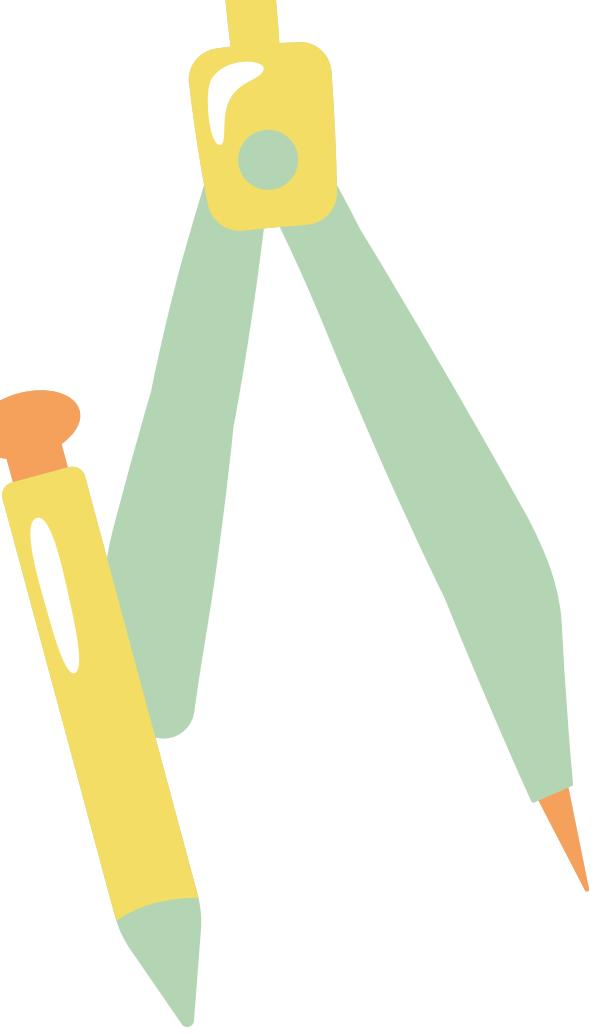* The longest chord in a circle is the diameter (ex. line AB in this circle)
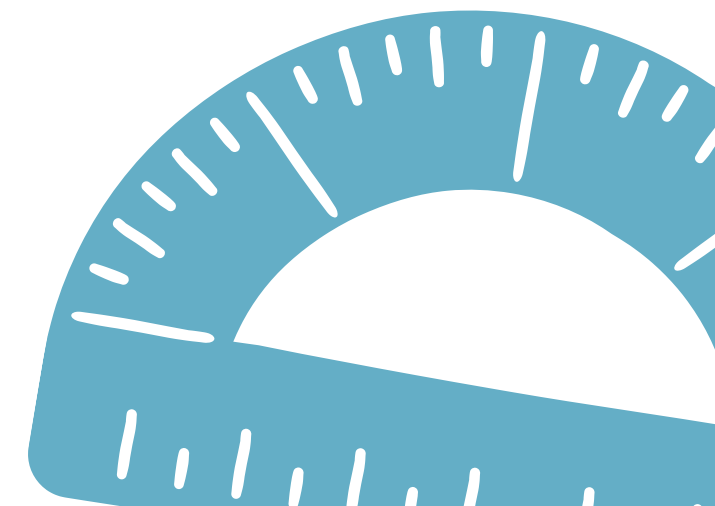
Segment

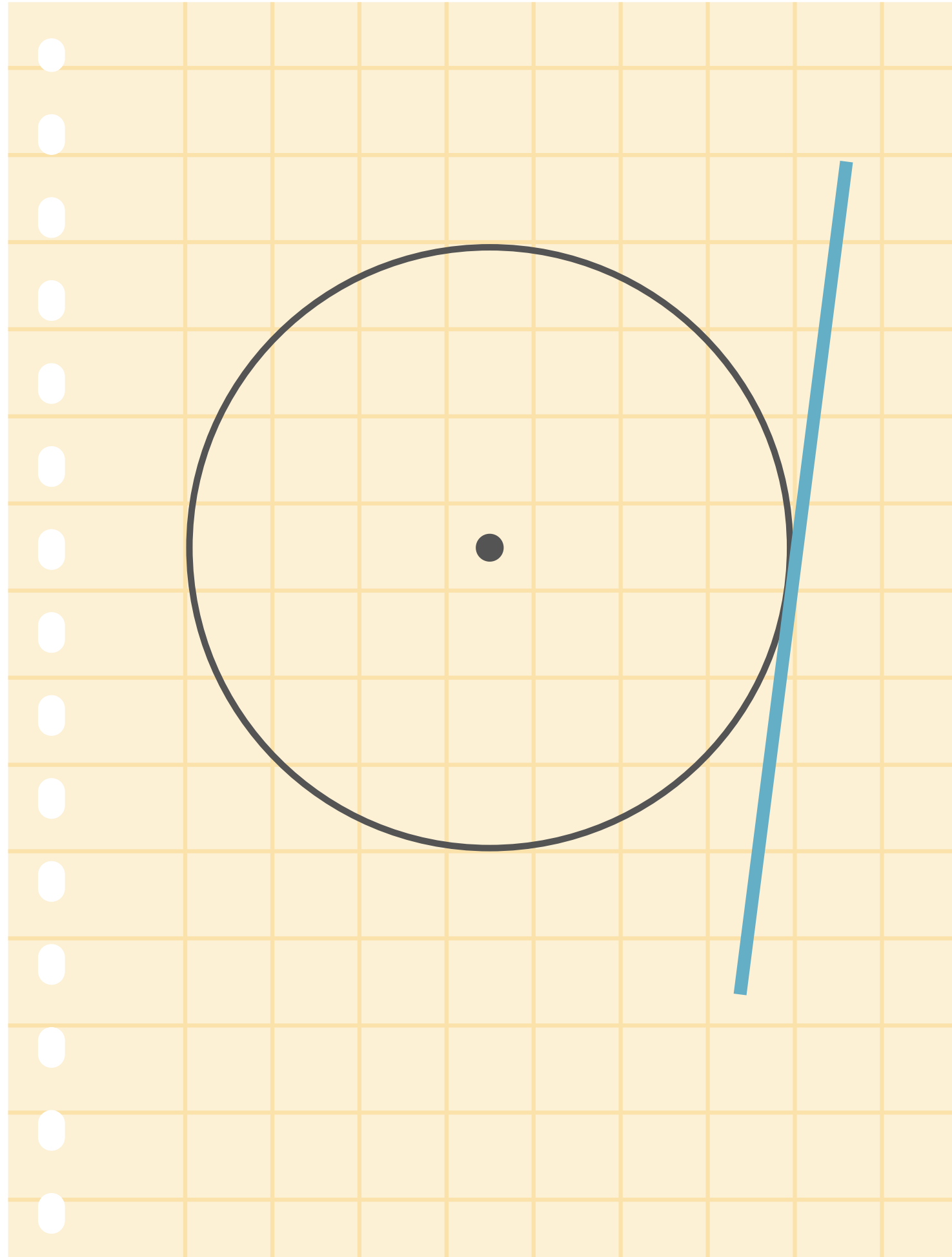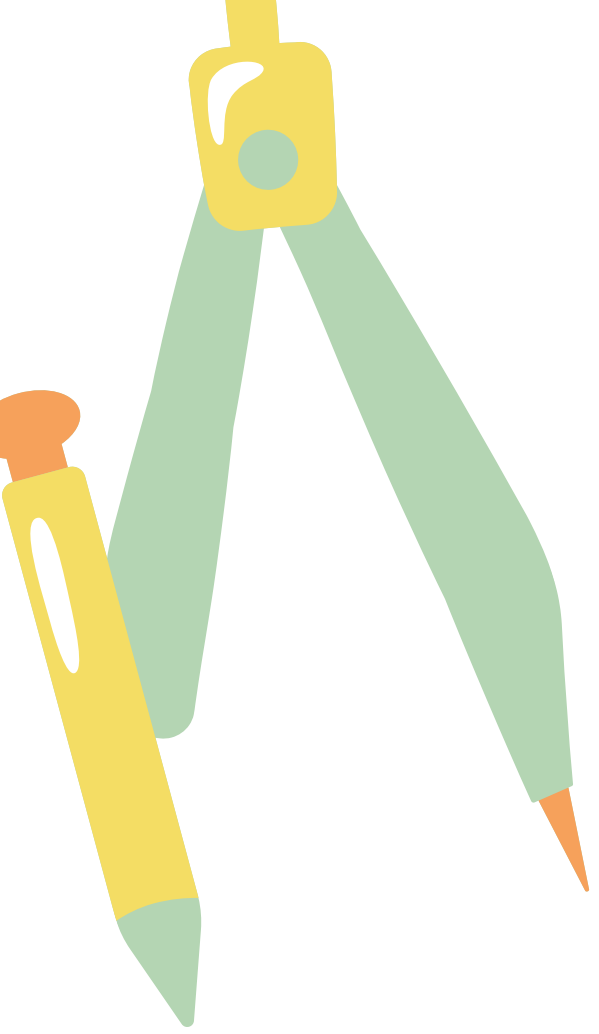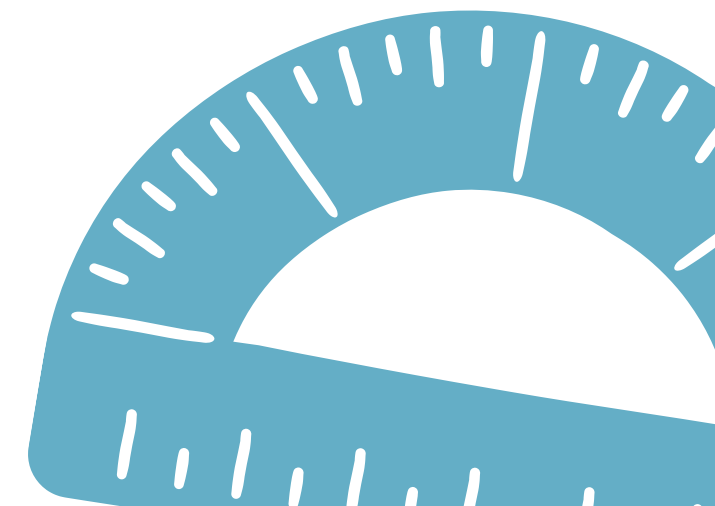An **area** of the circle enclosed by a chord

Secant

Any straight **line** that touches a circle at **two** points
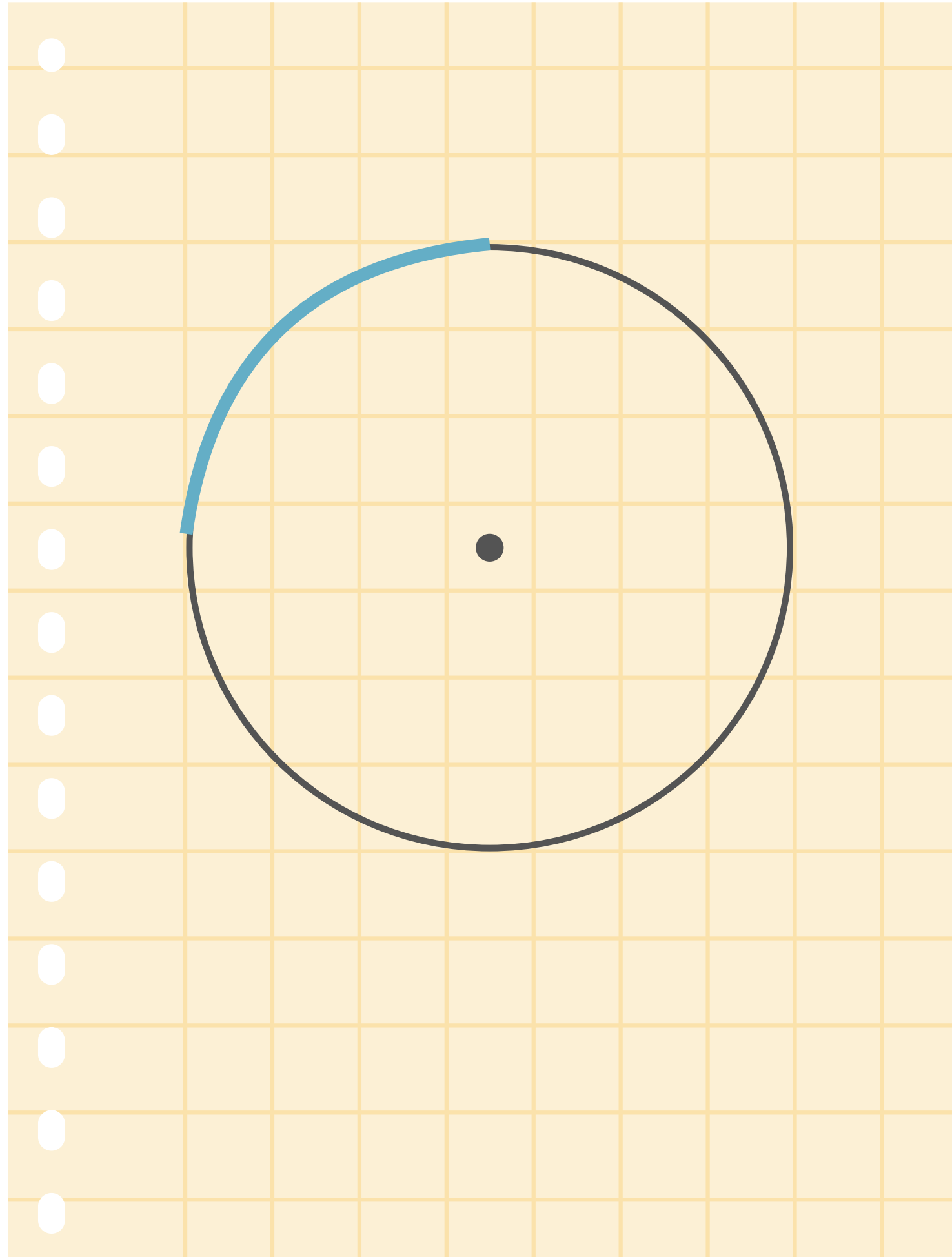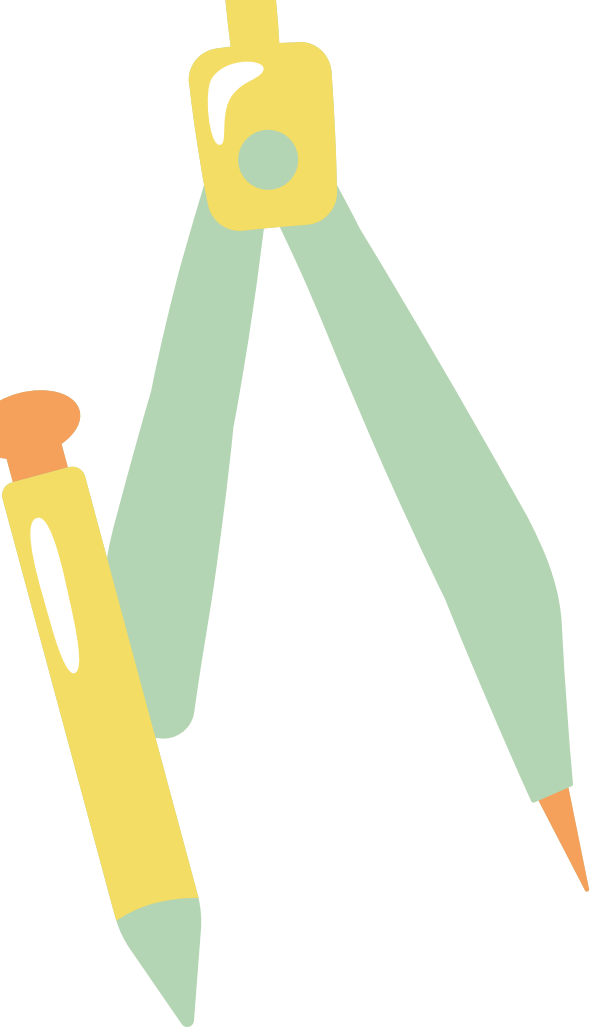
(an extended chord)

Tangent

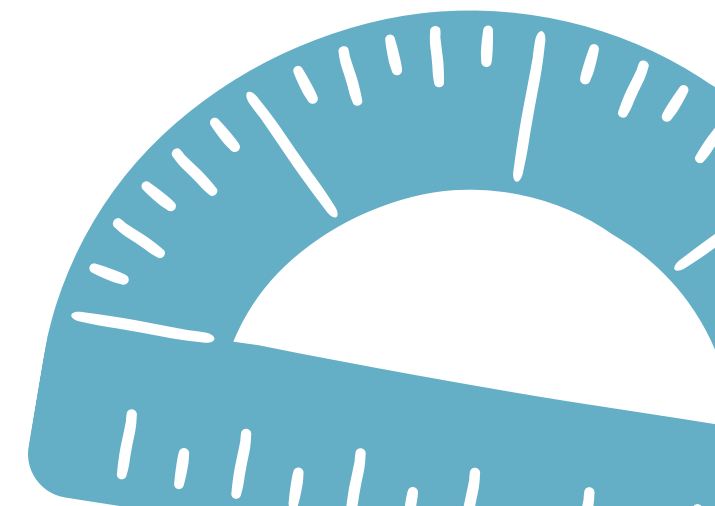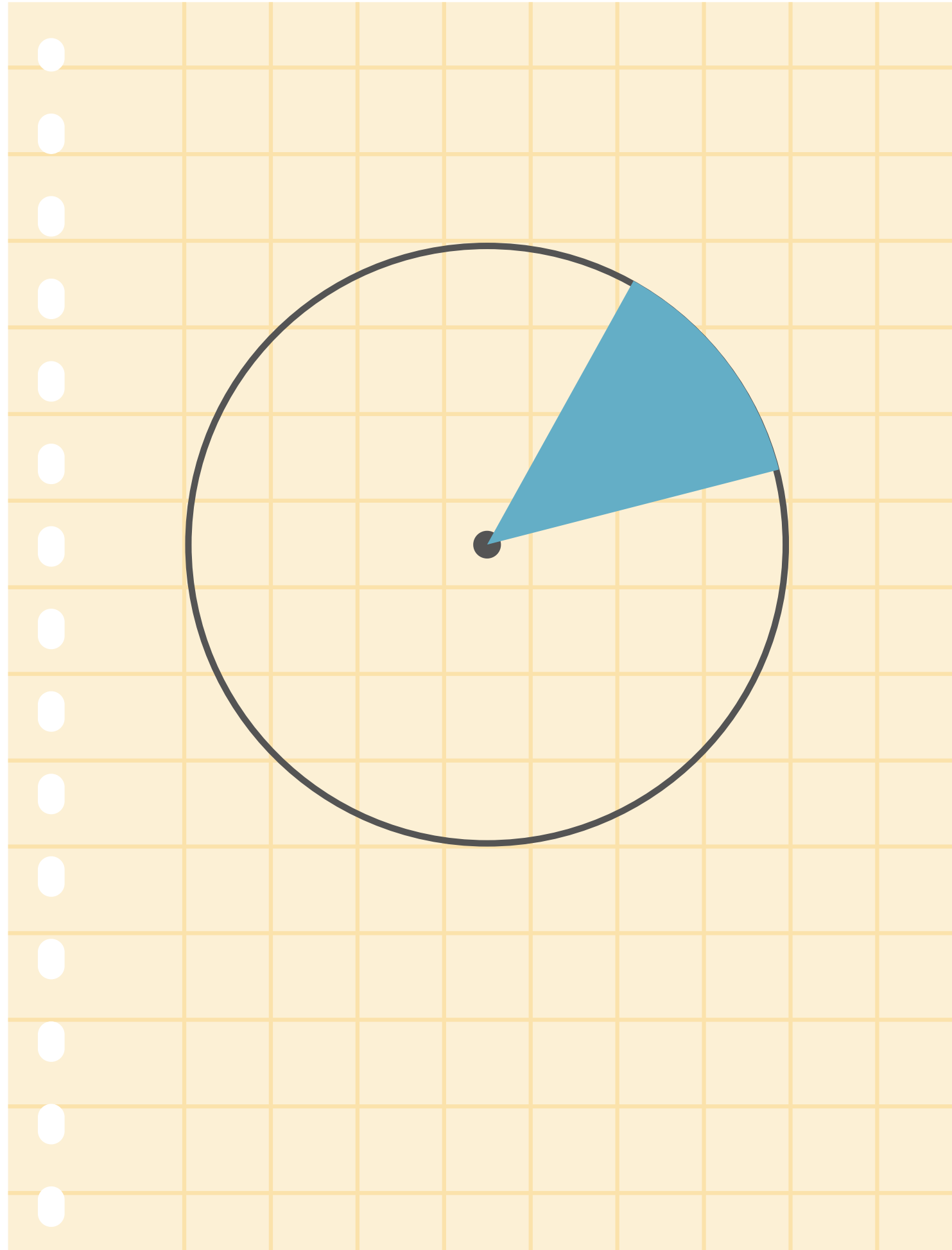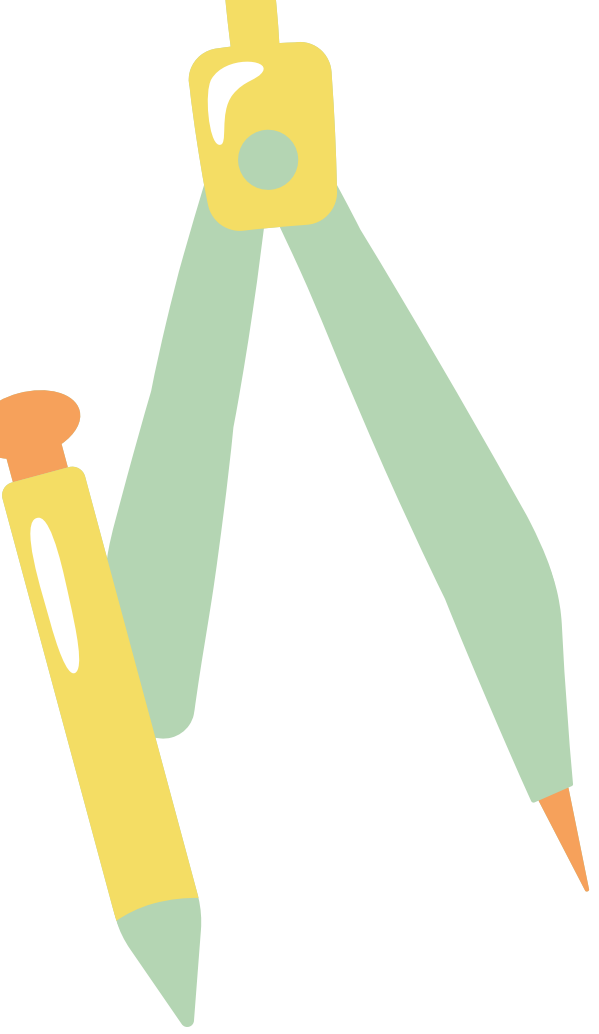Any straight **line** outside the circle that touches the circle at **one** point

Arc

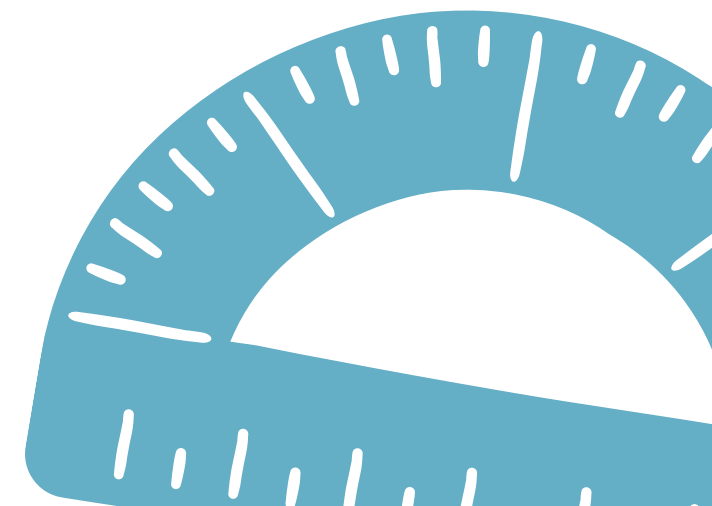Any **part** of the outside of the circle
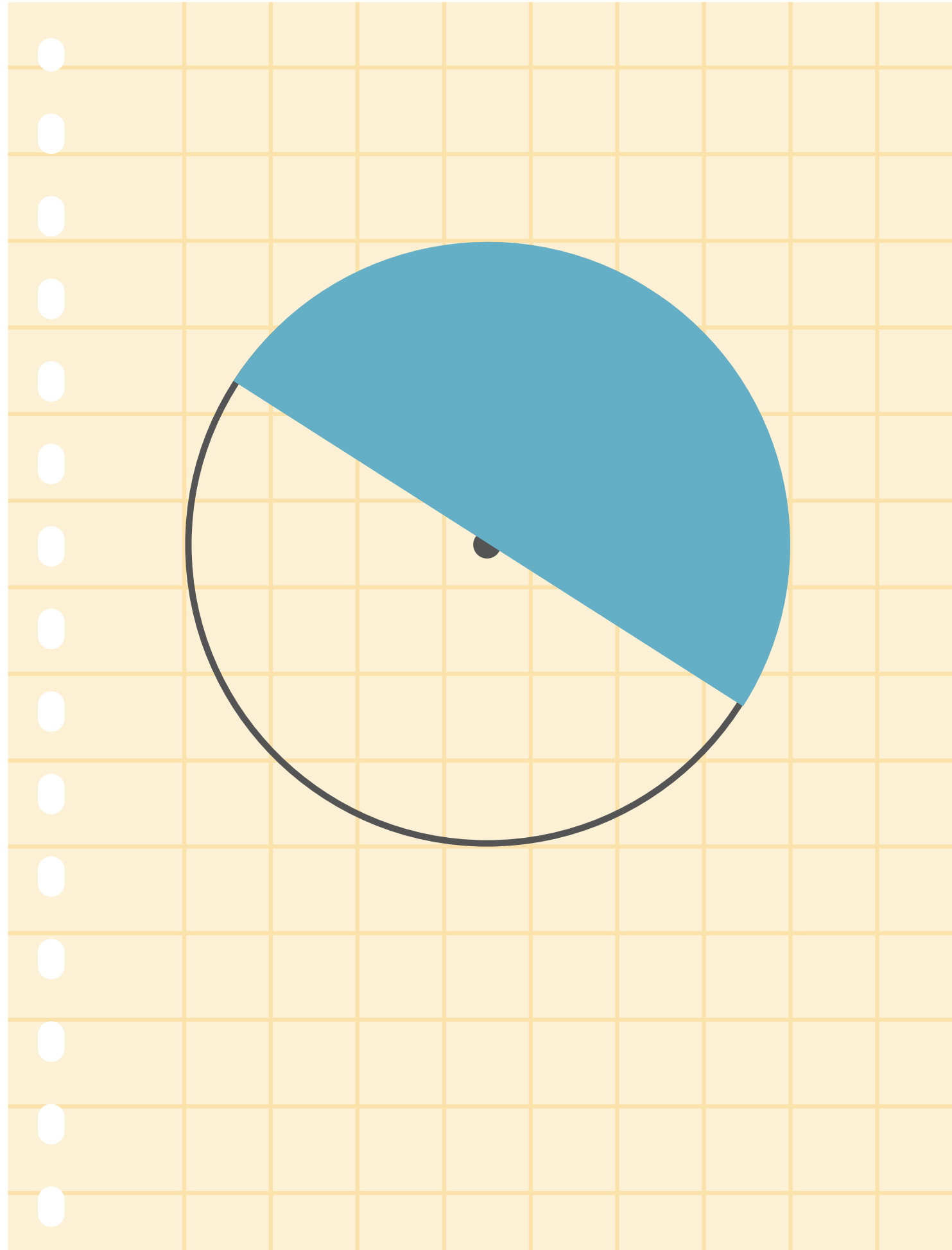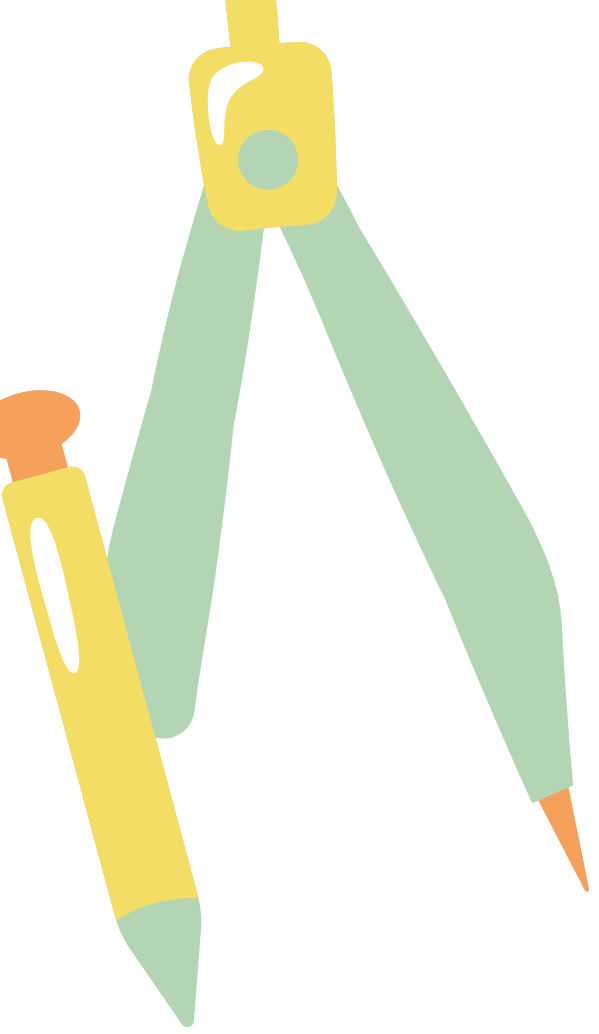
(a section of the circumference)

Sector

An **area** of the circle enclosed by an arc and two radii
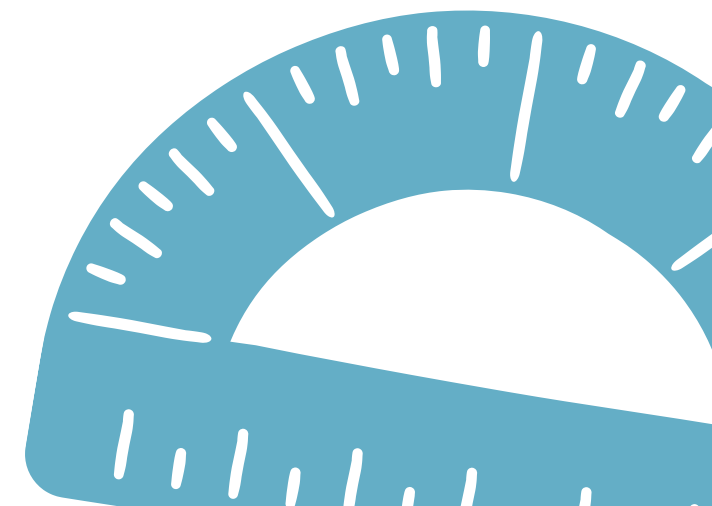
(a pizza slice!)

Semicircle
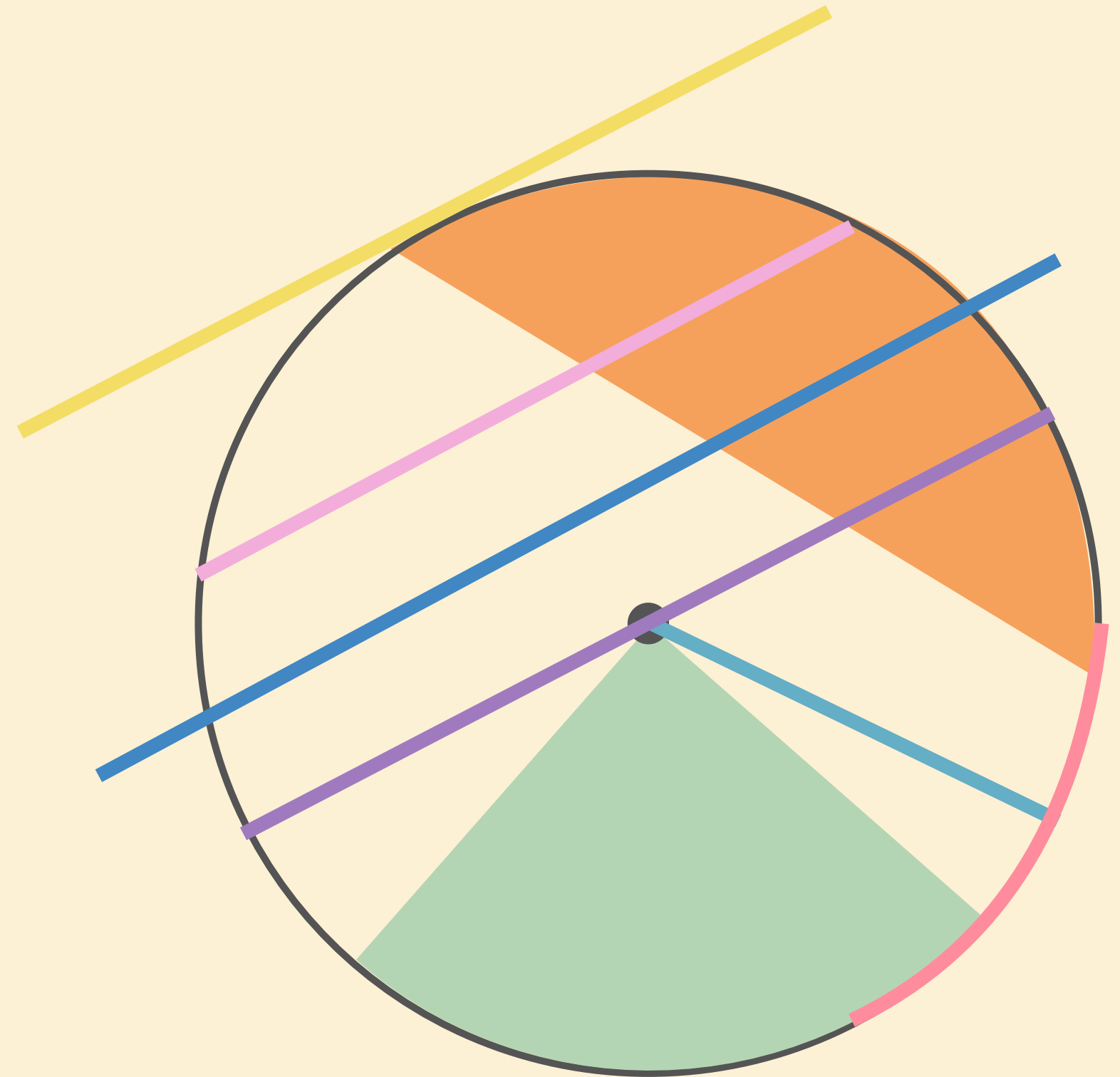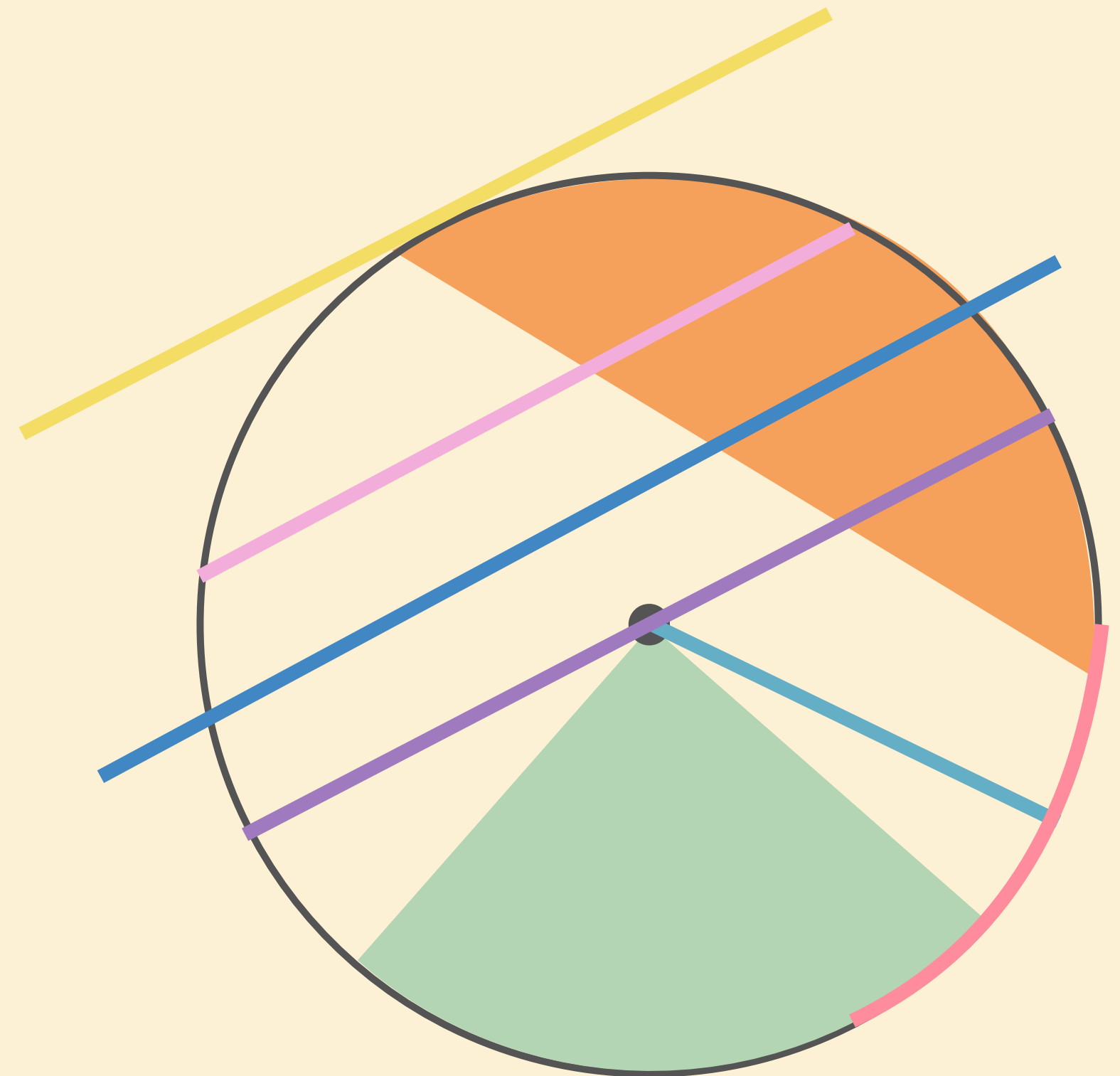
Half of a circle

Label the circle parts

a)

b)

c)

d)

e)

f)

g)

h)

Label the circle parts

a) tangent
b) chord
c) secant
d) diameter/chord
e) radius
f) arc
g) segment
h) sector

1 Play "Circle Pairs Game" on Mr. Fitch's website

2 Complete the worksheet

3 Hand in the worksheet