

Summer 2 Week 7 - Lesson 3

Can I compare and order
angles?

Fast Five - answers are on the next slide

1) How many grams are in 4.2kg?

2) $241 + 79 =$

3) $4 \times 20 =$

4) How many days are there in 6 weeks?

5) $3400 \div 100 =$

Fast Five - answers

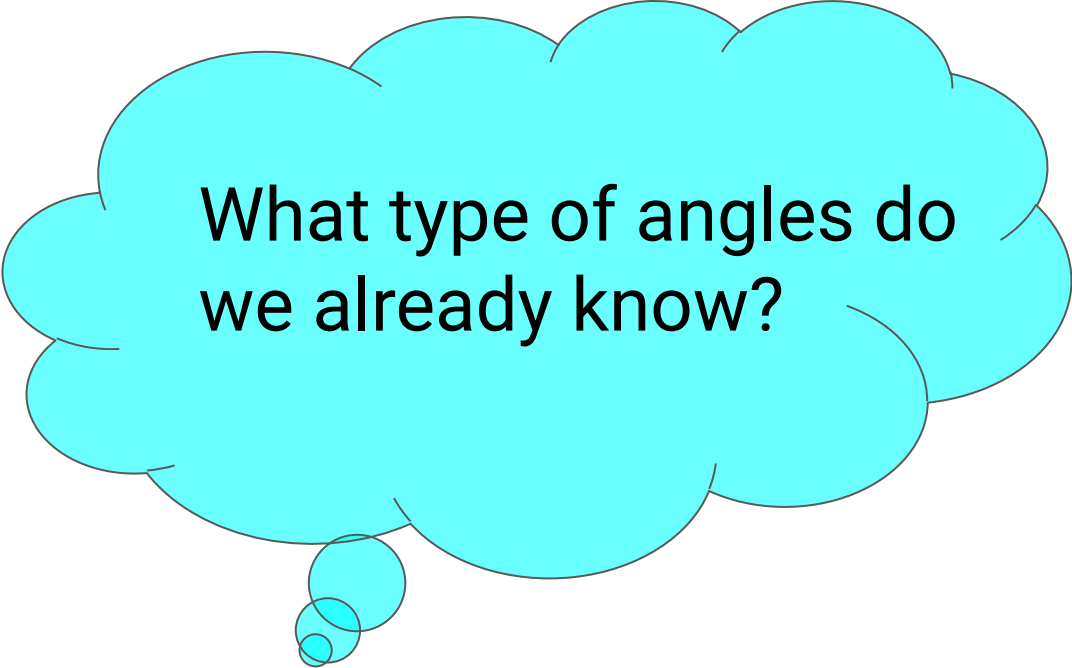
1) How many grams are in 4.2kg? **4200g**

2) $241 + 79 = 320$

3) $4 \times 20 = 80$

4) How many days are there in 6 weeks? **42 days**

5) $3400 \div 100 = 34$



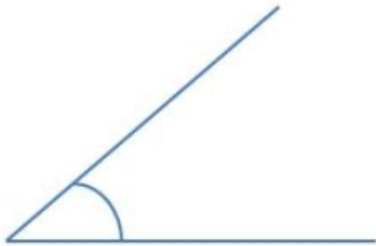
What type of angles do we already know?

What types of angles do we already know?

Obtuse

Right-angle

Acute



Acute angle
Less than 90°



Right angle
Exactly 90°

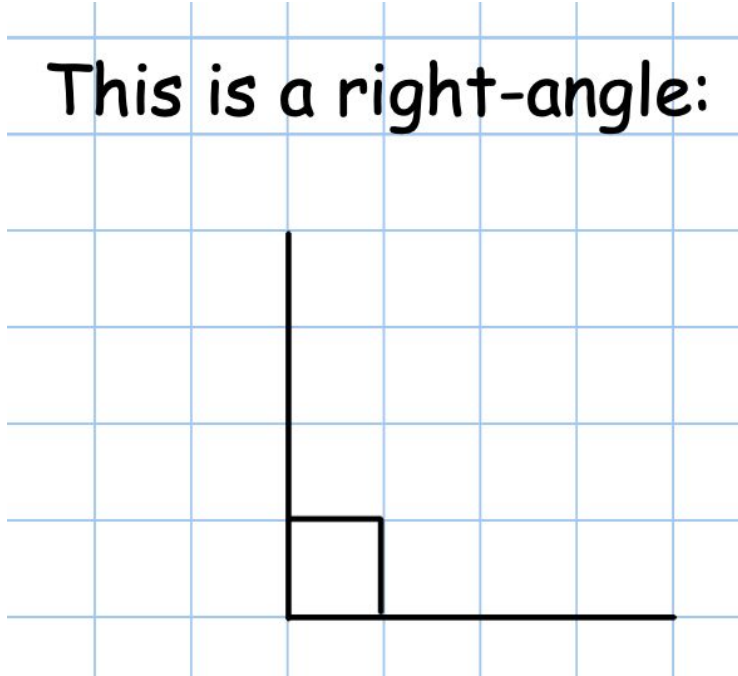


Obtuse angle
More than 90°
Less than 180°

Right-angle

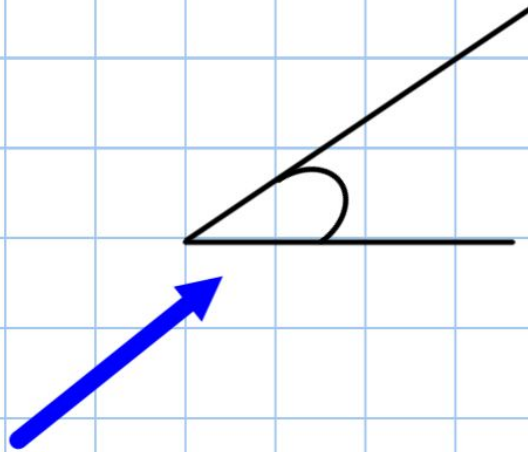
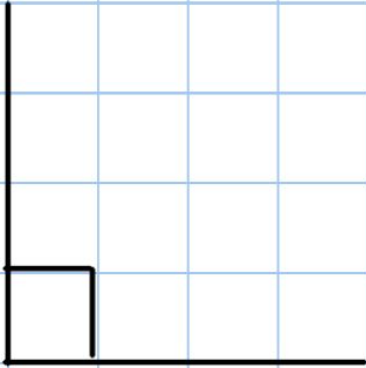
Right-angles are equal to 90 and the right-angle is shown by a square rather than a curve.

This is a right-angle:



Acute angles

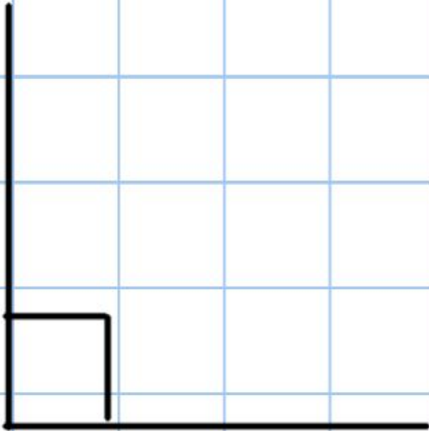
If the angle is smaller than a right-angle, it is called **acute**.



How cute is this tiny little angle!

Obtuse angles

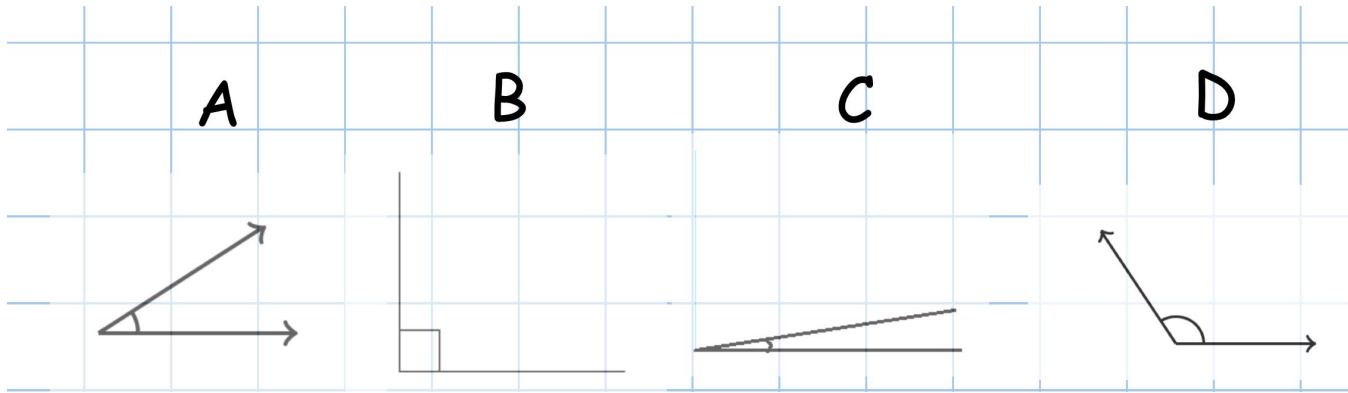
If the angle is larger than a right-angle, it is called **obtuse**.



This sounds similar to obese!

Let's try ordering angles!

Order these angles from smallest to largest:



First, we need to identify the type of angle.

Let's try ordering angles!

Order these angles from smallest to largest:

A	B	C	D
acute	right-angle	acute	obtuse

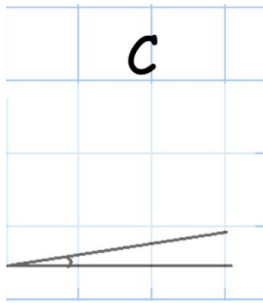
Let's try ordering angles!

Order these angles from smallest to largest:

Smallest

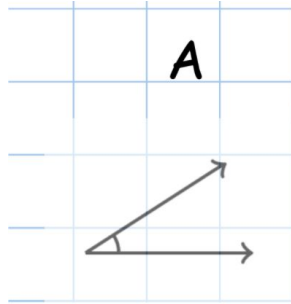


Largest

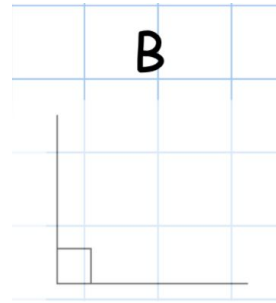


acute

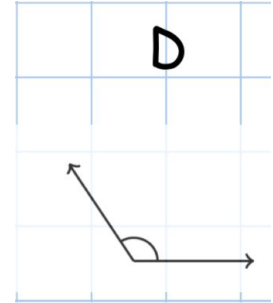
There are two acute angles here, but C is the smallest, A is larger and closer to a right-angle.



acute



right-angle

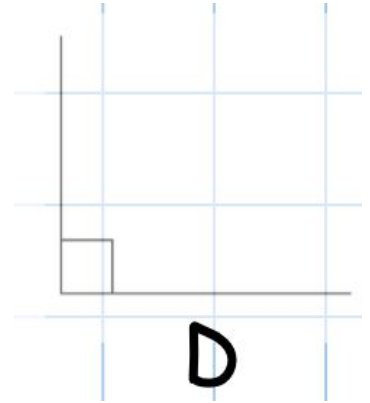
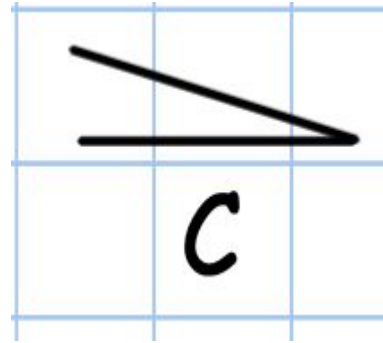
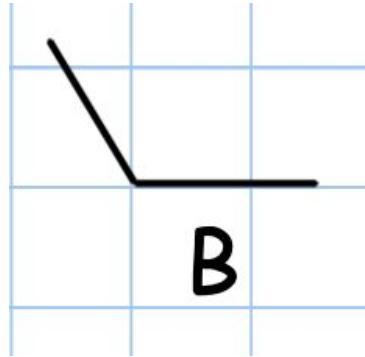
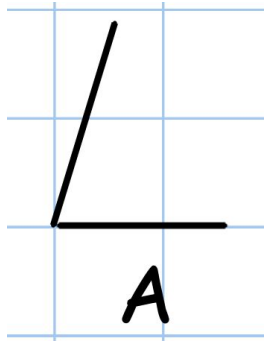


obtuse

Obtuse angles are larger than acute and right-angles!

Now we can order them!

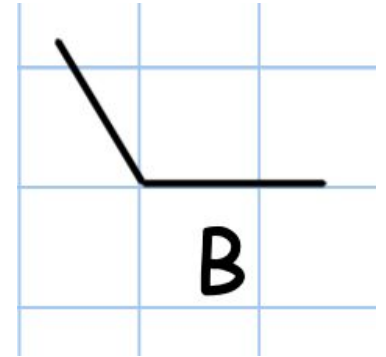
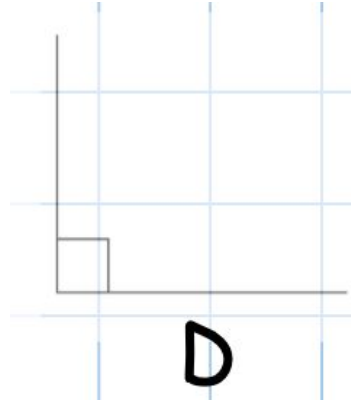
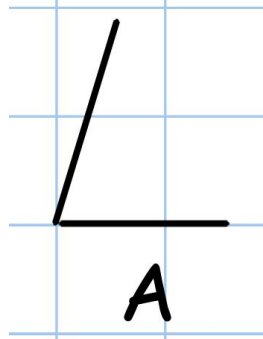
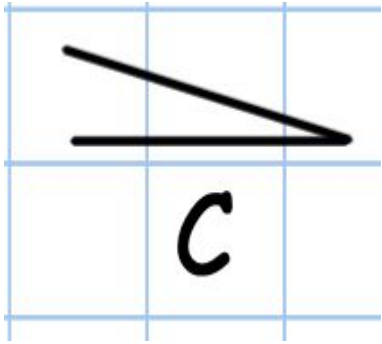
Your turn! Try ordering these angles from smallest to largest - the answers are on the next slide.



Smallest

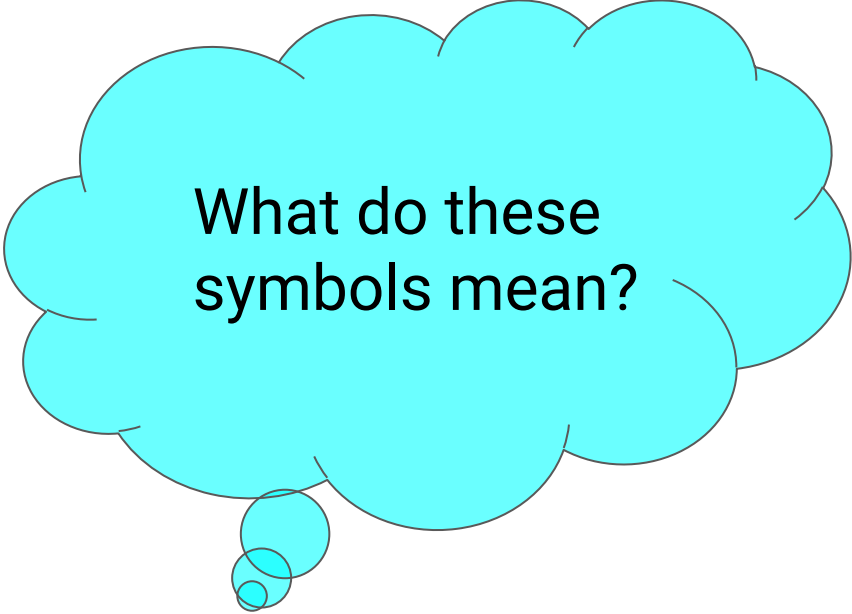


Largest

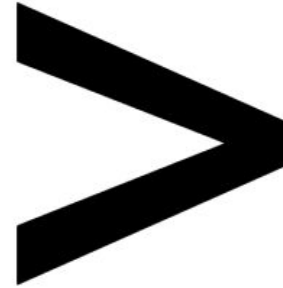
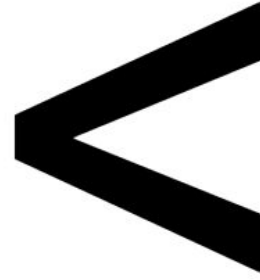


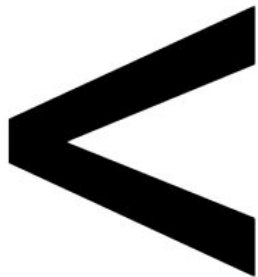
Both of these angles are acute, so they are the smallest. C is smaller than A.

This angle is obtuse, so it is the largest out of these angles.

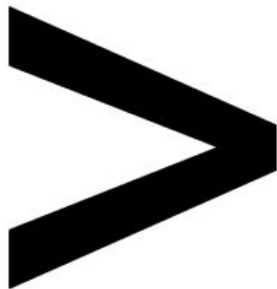


What do these
symbols mean?





This symbol means 'less than'. For example, $5 < 10$... 5 is less than 10

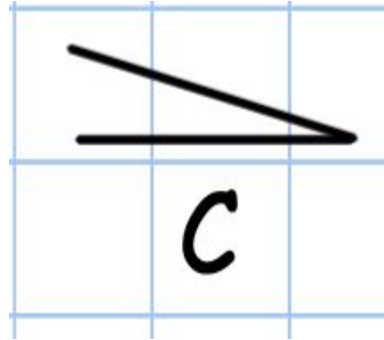
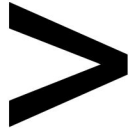
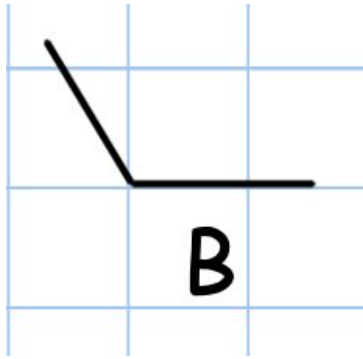


This symbol means 'greater than'. For example, $10 > 5$... 10 is greater than 5.

Let's compare these angles...

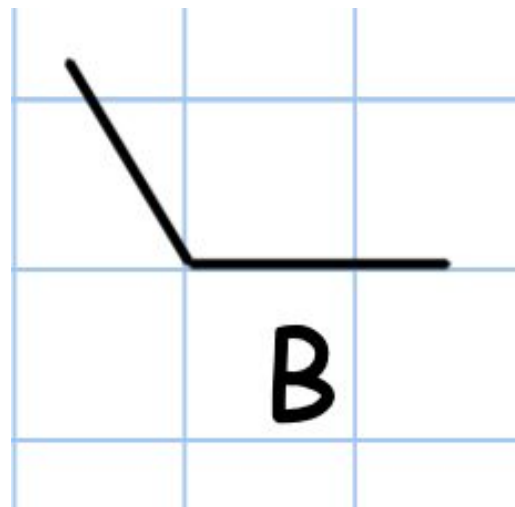
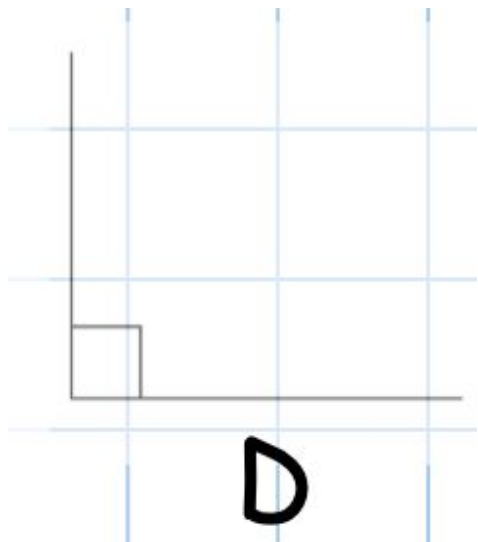
B is an **obtuse** angle because it is **larger** than a right-angle (90°)

C is an **acute** angle because it is **smaller** than a right-angle (90°)

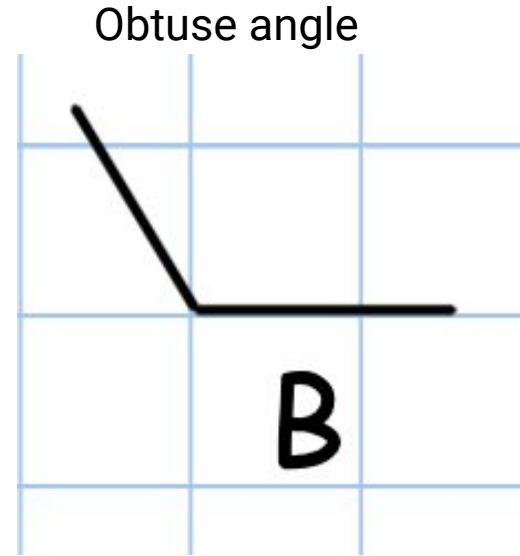
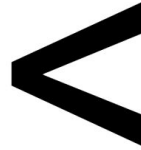
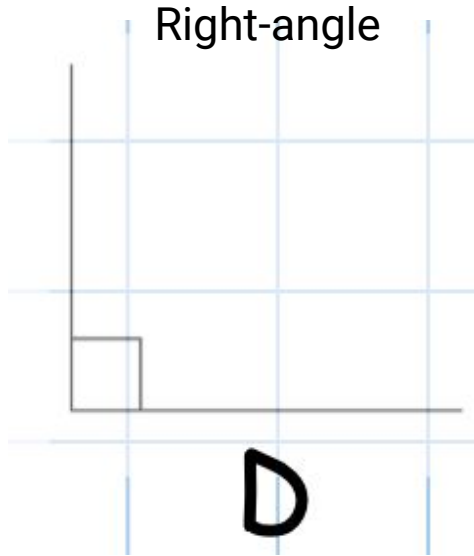


Therefore, angle B is **greater than** angle C.

Try to compare these two angles. The answer is on the next slide.



Try to compare these two angles. The answer is on the next slide.



Angle D is **less than** angle B.

Activities:

Choose how confident you feel with comparing and ordering angles. For each colour there are 2 activities: one is ordering angles and the other is to compare angles.

Activity 1 - Order the angles from smallest to largest.

Activity 2 - Compare the angles.