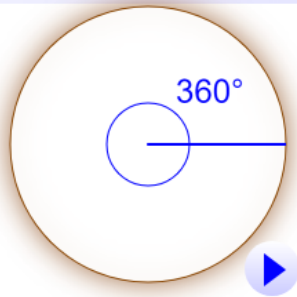# Lesson 3- Measuring angles in degrees

Degrees (Angles)

360°

Full Rotation

We can measure Angles in Degrees.

There are 360 degrees in one Full Rotation (one complete circle around).

(Angles can also be measured in Radians)

(Note: "Degrees" can also mean Temperature, but here we are talking about Angles)

The Degree Symbol: °

We use a little circle ° following the number to mean degrees.

For example **90°** means **90 degrees**

Look through the powerpoint to find out more about measuring angles.

Choose a task that you feel confident in completing. 3 options that you have are developing, expected and greater depth.

Developing

Measuring Angles in Degrees

1a. Label each image with the name of the angle.

A. B.

C. D.

2a. Look at the time on the clock. Draw where the minute hand will be after a right angle turn anti-clockwise.

3a. How many degrees will I move through if I turn from N to W clockwise?

4a. How many $\frac{1}{4}$ turns are equal to 360°?

5a. Use >, < or = to complete the equation.

180° ☐ $\frac{2}{4}$ turn

Measuring Angles in Degrees

1b. Label each image with the name of the angle.

A. B.

C. D.

2b. Look at the time on the clock. Draw where the minute hand will be after a 90° turn anti-clockwise.

3b. How many degrees will I move through if I turn from S to W clockwise?

4b. How many $\frac{1}{4}$ turns are equal to 270°?

5b. Use >, < or = to complete the equation.

$\frac{3}{4}$ turn ☐ 360°

Measuring Angles in Degrees

Measuring Angles in Degrees

6a. Label each image with the name of the angle.

A.

B.

C.

D.

6b. Label each image with the name of the angle.

A.

B.

C.

D.

7a. Look at the time on the clock. Draw where the minute hand will be after a 270° turn clockwise.

7b. Look at the time on the clock. Draw where the minute hand will be after a 90° turn anti-clockwise.

8a. How many degrees will I move through if I turn from NE to N anti-clockwise?

8b. How many degrees will I move through if I turn from SW to N clockwise?

9a. How many $\frac{1}{8}$ turns are equal to 180°?

9b. How many $\frac{1}{8}$ turns are equal to 270°?

10a. Use >, < or = to complete the equation.

135° ☐ $\frac{3}{8}$ turn

10b. Use >, < or = to complete the equation.

180° ☐ $\frac{3}{4}$ turn

Measuring Angles in Degrees

11a. Label each image with the name of the angle.

A. [compass image]

B. Minute hand moves from 5 to 15 clockwise

C. Minute hand moves from 4 to 9 clockwise.

D. SW to N clockwise

Measuring Angles in Degrees

11b. Label each image with the name of the angle.

A. [clock image]

B. Minute hand moves from 7 to 12 clockwise.

C. SW to NW anti-clockwise

D. SE to NE anti-clockwise

12a. Look at the time on the clock. Draw where the minute hand will be after a 120° turn clockwise and $\frac{3}{4}$ turn anti-clockwise.

[two clock images]

12b. Look at the time on the clock. Draw where the minute hand will be after a 270° turn anti-clockwise and $\frac{1}{4}$ turn clockwise.

[two clock images]

13a. How many degrees will I move through if I turn from NE to N anti-clockwise and N to SW clockwise?

[compass image]

13b. How many degrees will I move through if I turn from SE to N clockwise and N to S anti-clockwise?

[compass image]

14a. How many $\frac{1}{12}$ turns are equal to 270°?

[clock image]

14b. How many $\frac{1}{8}$ turns are equal to 180°?

[compass image]

15a. Use >, < or = to complete the equation.

270° ☐ $\frac{3}{4}$ turn ☐ acute angle

15b. Use >, < or = to complete the equation.

135° ☐ $\frac{1}{8}$ turn ☐ reflex angle