MATH 4: HOMEWORK 10 NOVEMBER 24, 2019





Angles!

- Angles and their measurement. Acute, right, obtuse angles.
- **Perpendicular** lines: lines that form 90° angle.
- Addition rule for angles: if two angles are **adjacent** (have a common side), then their measures add up: ∠AOB + ∠BOC = ∠AOC



- Special angles: angles whose sum is 90° are called **complementary**, and angles whose sum is 180° are called **supplementary**.
- Using a ruler draw a picture similar to the one below and prove that opposite angles are the same. Use the knowledge that straight angle is 180 °.



• Interior angles Alternate angles:



1. In the figure below, $\angle a = 30^\circ$. How large are two other angles?



2. In the figure below, $\angle a = 30^{\circ}$ and $\angle b$ is the right angle. Can you find the sizes of all other angles in the figure?



- 3. Find the unknown angles. The figures are not to scale, so don't try measuring angles with the protractor.
 - (a) Find $\angle ABC$.



(b) The triangle $\triangle DEF$ is symmetric (isosceles): $\angle EDF = \angle EFD$. Find $\angle EDF$.



(c) Find \angle GHK.



4. <u>Do a very simple worksheet about equivalent fractions published at the classroom page.</u> Attach the worksheet to your homework.