



Math Activity – Grade Eight

Expectations:

Process Expectation: Reasoning and Proving.

Materials:

Mental Set for the lesson: Have the students recall whether or not they were Brownies, Twinkies, Scouts, Beavers or Guides. See if they can recall the structure of their packs. Note: A pack is about 25 students. 4 or 5 packs represent an Area, 4 or 5 Areas represent a Region, and all of the regions together make up the provincial group.

Review:

Review the problem solving model.

Development:

Similar to the Brownie and Scout model the army is made up of units that fit together to make the entire fighting force.

Army units are broken up into the following categories.

A squadron is approximately 12 people

A platoon can be considered as 4 squadrons

A company can be considered as 4 platoons

A battalion can be considered to be 4 companies

A regiment can be considered to be 4 battalions

A division can be considered to be 4 regiments.

Explain using pictures, diagrams, words, mathematical language, how many people five Divisions contains.

Answer:

a **squadron** = 12 people

a **platoon** is 4 squads (4×12) = 48 people

a **company** is 4 platoons (4×48 the people in a platoon) = 192 people

a **battalion** is 4 companies (4×192 the number of people in a company) = 768 people

a **regiment** is 4 battalions (4×768) = 3072 people

a **division** is 4 regiments (4×3072) = 12 288 people,

Five divisions is ($5 \times 12 288$) = 61 440 people.

Consolidate/Debrief:

Ask students where else do we trade in and trade up?

Answer:

Adding

Home Activity:

Have the students reflect on their problem solving strategies, when they answer the following question. If Katie was away today and you were asked to use pictures, words and mathematical language to send her a note that would tell her what we discovered in math class today. Go home and create the note.