

PBL in Middle School, PBL Summit June 2015

REFLECTION HELPERS FOR STUDENTS

- What did you learn by solving this problem?
- In what way(s) did the answer surprise you?
- What was challenging about this problem?
- What other way(s) of solving the problem did you consider or learn from others?
- What did you enjoy (or not enjoy) about solving this problem?
- If you worked with a partner, how did that collaboration help you?
- If your work with a partner was not helpful, what could you have done differently?
- Did you try something and come to a dead end? If so, how did you decide what to do next?
- How did this problem relate to (or remind you of) other problems you have solved?
- Was the problem realistic?
- Can you think of another problem to solve based on this one (in other words, a good “I wonder”)?
- What math skill(s) did you discover or use in solving this problem?
- What specific math skill(s) could you practice that would make it easier to solve a problem like this?
- What did you enjoy about this problem?

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LANGUAGE HELPERS FOR TEACHERS

FACILITATING GROUPS

- Help students listen to each other. Overtly orchestrate conversation when necessary.
- Ask another member, “what do you think of what said”
- Model questioning language and speaking respectfully for students.
- What might be a good first step?
- What would make this easier?
- What do you wish you knew?
- How could you find that out?
- What do you think the answer is going to look like?
- What were you thinking when you ____?
- I wonder if you could ...use a table (or other technique if scaffolding is warranted).
- What do you think would happen if ____? (Simpler case, extension case)
- How does this smell to you? (Is it realistic)
- What do you think (the formula) might be?
- Can you explain to your partner what you did?

SHARING LANGUAGE

- WHO WOULD LIKE TO SHARE?
- Who has a different approach?
- Who found a different answer?
- Is _____ correct?
- Why did _____ do this next?
- What could you do next?
- What do you think of that?
- What did you like about this problem?
- What made this problem challenging?