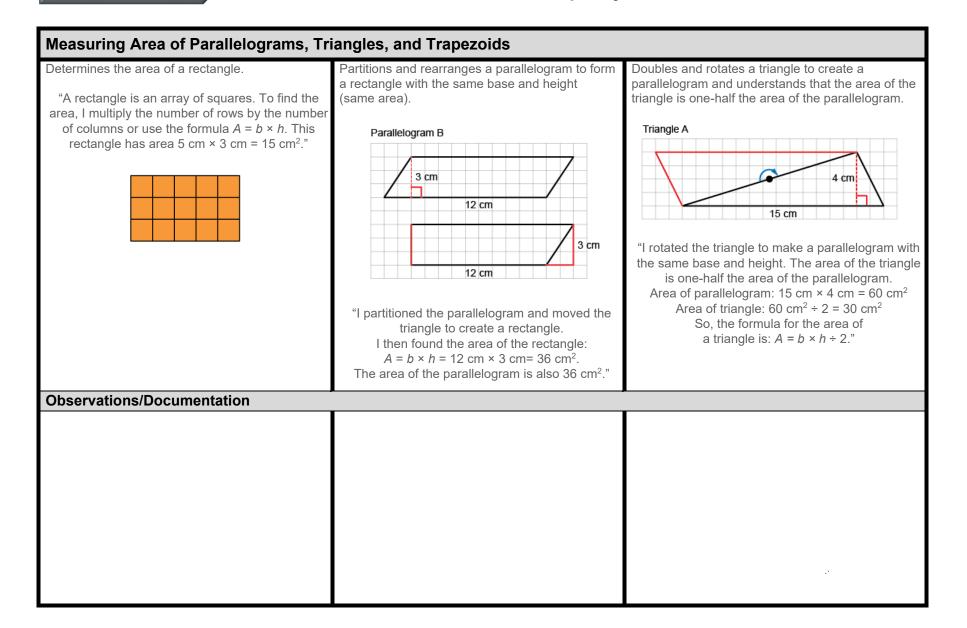
#### Measurement

# Activity 6 Assessment Perimeter, Area, Volume, and Capacity Consolidation

Using Formulas to Determine Perimeter of Polygons Identifies the appropriate formula to Uses standard units to measure the Uses P = # of equal sides × length of Fluently applies formulas for a side to calculate the perimeter of determine the perimeter of perimeter of irregular polygons by determining perimeter of polygons to adding side lengths. regular polygons. different polygons. solve problems. A soccer field is 125 m by 85 m. A . . . football field is about 92 m by 49 m. 8 cm Which field has the greater perimeter? 5 cm "Both fields are rectangular, so I will use the formula for the perimeter of . . . . Regular Octagon a rectangle: P = 2(I + w). "The irregular polygon is a Soccer field: parallelogram, so I can use the "In a regular octagon, all sides are P = 2(125 m + 88 m) = 426 m."The polygon is on 1-cm dot paper. formula: P = 2(a + b): 2(48 mm + 68 the same length. I multiply the length Football field: I added the lengths of the sides: mm) = 2(116 mm) = 232 mm. of a side by the number of sides: P =P = 2(92 m + 49 m) = 282 m3 cm + 4 cm + 4 cm + 2 cmThe pentagon is a regular pentagon,  $8 \times 5$  cm = 40 cm. The perimeter is The soccer field has the greater 1 cm + 1 cm + 1 cm = 18 cm;so I can use the formula P = 5s: 40 cm." perimeter." The perimeter of the shape  $5 \times 9.8$  cm = 49.0 cm." is 18 cm." **Observations/Documentation** 

### Measurement

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