

Common Core Measurement & Data in Bridges, Grades 3-5 **Grade Three Instructional Focus:** • Tell & write time to the nearest minute; solve word problems involving time intervals

- · Measure & estimate liquid volume and mass in metric units; solve related story problems
- · Read, draw, and interpret scaled picture and bar graphs
- · Understand concepts of area measurement; measure area in standard units
- · Relate area to the operations of multiplication and addition
- · Solve problems involving perimeter

Resources in Bridges:

Bridges: Unit 1, Unit 4, Unit 6, Unit 8

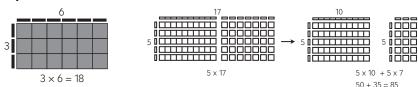
Number Corner: Coins, Clocks & Bills through the year, Oct & Jan Cal Grid,

Dec, Feb & March Data Collector, Oct & May Magnetic Board

Supplement Sets: A2, A3, A7, C4, D2, D3, D5, D6, E1

Third Graders

· Make extensive and consistent use of arrays and the area model to picture and solve basic multiplication facts as well as 1 x 2-digit multiplication combinations.



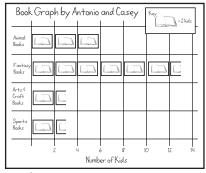
· Use square inch and square cm tile to find area and make generalizations that lead to the formula for finding area.

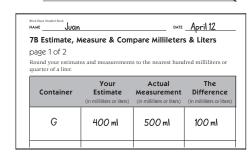


 Estimate and measure liquid volume and mass.

 $8" \times 10" = 80$ square inches

Students The 10 tells you how many tiles fit across the ton. The 8 tells you how many rows of tiles you'd need. You can just multiply them together to get the answer. This is cool! It's way faster than covering the paper with tiles.





 Construct & interpret scaled picture and bar graphs.



quadrilaterals by their perimeter.



Estimate and then measure to order

Common Core Standards Addressed: 3.MD.1–3.MD.3 and 3.MD.5–3.MD.8

C Rhombus 8 + 8 + 8 + 8 = 32

Instructional Focus:

· Solve problems involving measurement and conversion of measurements from a larger unit to a smaller unit (metric length & weight; customary weight, metric capacity, time)

Grade Four

- Use the 4 operations to solve story problems involving distances, intervals of time, liquid volumes, masses of objects, and money
- · Apply area & perimeter formulas for rectangles in real world & mathematical problems
- · Understand concepts of, and measure, angles

Resources in Bridges:

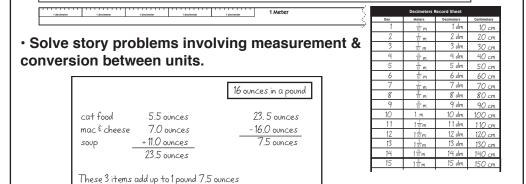
Bridges: Unit 2, Unit 3, Unit 4, Unit 6, Unit 8 (Also, Grade 5 Unit 3, Sessions 6–10, 15) Number Corner: Sep-Dec, Mar, May Cal Collector; Jan, Apr May Cal Grid Supplement Sets: A5, C3, D1, D3, D6, D9, E2

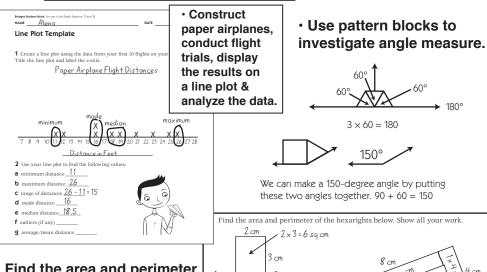
Practice Book: 6, 7, 10, 12, 18–22, 24, 26–28, 30–32, 34, 36, 38, 40, 48–50, 55, 56, 62, 70, 72, 78, 80, 88, 91, 93, 96, 98, 99, 100, 103, 104, 106, 109, 110, 114, 116, 120, 122, 127, 140

Fourth Graders

Measure and convert between units within a single system.

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3 × 4 = 12 sq cm

4 cm

6+2+3+3+4=18 cm

1+8+4+1+3+7=24cm

P=24cm A=11sqcm

 Find the area and perimeter of simple and more complex figures, and solve problems involving perimeter and area.

Common Core

Standards Addressed: 4.MD.1-4.MD.3 and 4.MD.5-4.MD.7

Instructional Focus:

- · Convert like measurement units within a given measurement system, and use these conversions in solving multi-step, real world problems
- Understand concepts of volume measurement
- Relate volume to the operations of multiplication and addition & solve real world & mathematical problems involving volume

Grade Five

Resources in Bridges:

Bridges: Unit 1, Unit 2, Unit 3, Unit 4, Unit 6, Unit 7

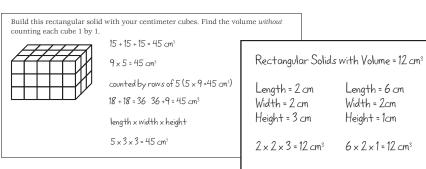
Number Corner: Nov, Mar Cal Collector; Jan, Mar, Apr Cal Grid

Supplement Sets: D2

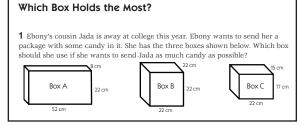
Practice Book pages: 17, 27, 28, 54, 57, 59, 60, 65, 69, 72, 74, 86, 91

Fifth Graders

 Construct and measure rectangular solids to find volume and make generalizations that lead to the formula for finding volume.



Solve problems involving volume.



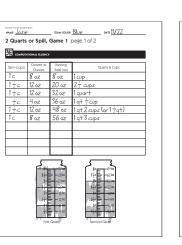
 Conduct month-long investigations that involve measuring liquid volume, weight, time, and temperature. and making measurement conversions when needed.

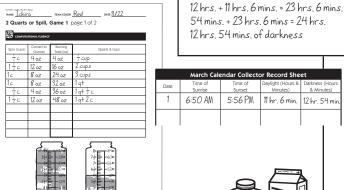
Length = 12 cm

Width = 1 cm

Height = 1 cm

 $12 \times 1 \times 1 = 12 \text{ cm}^3$





5:56 PM 11 hr. 6 min. 12 hr. 54 m

Common Core Standards Addressed: 5.MD.1 and 5.MD.3-5.MD.5