

## Section 5.4 Practice Problems

1. If 1 bushel is approximately 2220 cubic inches, approximately how many bushels of grain are there in a bin that is 8 feet by 8 feet by 4 feet?
  2. A truck has a maximum load limit of 5000 kg. Can it safely carry 230 bushels of canola, if the conversion factor is 44.092 bushels/tonne?
  3. How many kilograms are in 1 ton?
  4. A sign posted in an elevator says “Maximum capacity 1400 lb.” If the average weight of an adult is 80 kg, how many average-weight adults can the elevator carry?
  5. If 1000 cubic centimeters is equivalent to 1 L, how many millimeters will a box that measures 10 cm by 5 cm by 3 cm hold?
  6. A hectare (ha) is an area of measure of 10,000 square meters. How many hectares are there in a field that is 620 m by 380 m?
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### SOLUTIONS...

- 1) About 199 bushels
- 2) Total weight: 5216 kg. This is over the limit, so load cannot be safely carried.
- 3) Approximately 909 kg
- 4) About 8 adults
- 5) 150 mL
- 6) 23.6 ha