

Name: Class:

Convert and compare metric units

 Which sign makes the statements below true. Complete with $<$, $>$, $=$.

 1. 50 grams 7 kilograms.

Convert 50 grams to kilograms.

If 1 000 grams = 1 kilogram,

 Therefore, 50 grams = $\frac{50 \text{ grams} \times 1 \text{ kilogram}}{1\,000 \text{ grams}}$

$$= \frac{50}{1,000} = \frac{50 \div 50}{1000 \div 50} = \frac{1}{20} \text{ kilogram}$$

 Now compare $\frac{1}{20}$ kilogram with 7 kilograms.

 $\frac{1}{20}$ kilogram is less than 7 kilograms.

 Which implies that 50 grams 7 kilograms

 2. 3 Liters 3 000 milliliters

 3. 55 km 1,000 m

 4. 1,500 cm 20 meters

 5. 12 cg 12 milligrams

 6. 2.5 kg 2,600 grams

 7. 800 ml 236 centiliters

 8. 30 dm 250 cm

 9. 97 g 1 kg

 10. 1,189 mg 1 gram

 11. 10 dm 100 cm

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