

Name: Class:

Compare and convert metric units of volume



a. Which is greater, 233 centiliters or 15 deciliters?

b. Convert 15,260 liters to kiloliters.

c. Which metric unit is bigger? Tick the correct answer.

i. 10,000 dekaliters or 100 kiloliters?

☐ 10,000 dekaliters ☐ 100 kiloliters ☐ they are equal

iii. 17,000 milliliters or 20 liters.

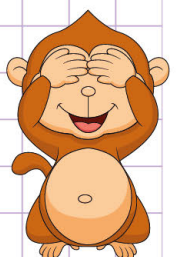
☐ 17,000 milliliters ☐ 20 liters ☐ they are equal

iv. 119 centiliters or 1 liters.

☐ 119 centiliters ☐ 3 liters ☐ they are equal

iii. 3,998 milliliters or 30 deciliters.

☐ 30 deciliters ☐ 3,998 milliliters ☐ they are equal



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Compare and convert metric units of volume



a. Which is greater, 233 centiliters or 15 deciliters?

First of all let's convert to same metric unit then compare.

Let's convert from centiliters to deciliters.

If 10 centiliters = 1 deciliters,

$$\text{then } 233 \text{ centiliters} = \left(\frac{233 \times 1}{10} \right) \text{ deciliters} \\ = 23.3 \text{ deciliters.}$$

Now, let's compare.

Since 23.3 deciliters is less than 15 deciliters,

it implies that 15 deciliters is larger than 233 centiliters.

b. Convert 15,260 liters to kiloliters.

If 1,000 liters = 1 kiloliter,

$$\text{then } 15,260 \text{ liters} = \left(\frac{15,260 \times 1}{1,000} \right) \text{ kiloliters.} \\ = 15.26 \text{ kiloliters.}$$

So, 15,260 = 15.26 kiloliters.

c. Which metric unit is bigger? Tick the correct answer.

i. 10,000 dekaliters or 100 kiloliters?

☐

10,000 dekaliters

☐

100 kiloliters

☒

they are equal

iii. 17,000 milliliters or 20 liters.

☐

17,000 milliliters

☒

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they are equal

iv. 119 centiliters or 1 liters.

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119 centiliters

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iii. 3,998 milliliters or 30 deciliters.

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