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5th-grade Metric Conversion Worksheet 3

1. Barney was serving his friends 10 cups of punch. Find out how many milliliters of punch each cup carries if the total amount of punch is 2 l.

2. Fill in the blanks with the appropriate conversion:
___ millimeters = 881 m

3. Fill in the blanks with the appropriate conversion:
906 m = ___ cm

4. Convert 691 cm into millimeter.

5. How many meters make 801 km?

6. 8219.4 kg = 821940 g. Is this statement true?

7. Convert 82 kg 9084g into grams.

8. Fill in the blanks with the appropriate conversion:
172 kg + 290 g + 819 kg = ___ g

9. Trevor wants to know which is greater, 92 kg or 90000g. Can you help him find out?

10. Fill in the blanks with the appropriate conversion:
92 l + 892 ml + 597 l = ___ ml

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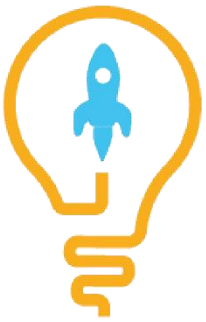
ANSWERS

1. 200 milliliters	2. 881000 mm	3. 90600 cm	4. 691 mm	5. 801000 m
6. False	7. 17084g	8. 991290 g	9. 92 kg > 90000g	10. 689892ml



SOLUTIONS

Complete solution/explanation

Question 1: Barney was serving his friends 10 cups of punch. Find out how many milliliters of punch each cup carries if the total amount of punch is 2 l.

Solution:

Using, 1L = 1,000 milliliters,
Multiply 2 liters by 1,000
We get, 2 ×1,000 = 2000 milliliters
He splits the punch evenly among 4 glasses.
Hence, 2000÷10 = 200
Each cup carries 200 milliliters.

Question 2: Fill in the blanks with the appropriate conversion:

Solution:

___ millimeters = 881 m
Using, 1m = 1000 mm
881 m = 881 × 1000 mm
⇒ 881 m = 881000 mm

Question 3: Fill in the blanks with the appropriate conversion:
906 m = ___ cm

Solution:

Using, 1m = 100 cm
906 m = 906× 100 cm
⇒906 m = 90600 cm

Question 4: Fill in the blanks with the appropriate conversion:
691 cm = ___ millimeter

Solution:
Using, 1cm = 10 mm
691 cm = 691 × 10 mm
⇒ 691 cm = 691 mm

Question 5: Fill in the blanks with the appropriate conversion:
801 km = __ m

Solution:
Using, 1km = 1000 m
801 km =801 × 1000 m
⇒801 km = 801000 m

Question 6: Fill in the blanks with the appropriate conversion:
8219.4 kg = __ g

Solution:
Using, 1kg = 1000 g
8219.4 kg = 8219.4 × 1000 g
⇒ 8219.4 kg = 8219400 g

Question 7: Fill in the blanks with the appropriate conversion:
___ g = 82 kg 9084g

Solution:
Using, 1kg = 1000 g
82 kg = 82 × 1000 g
⇒ 82 kg = 82000 g
Now, 82 kg 9084 g = 8000g + 9084g
82 kg 9084 g = 17084g

Question 8: Fill in the blanks with the appropriate conversion:
172 kg + 290 g + 819 kg = ___ g

Solution:
Using, 1kg = 1000 g
172 kg = 172 × 1000 g
⇒ 172 kg = 172000 g
Similarly, 819 kg = 819000 g
Now, 172 kg + 290 g + 819 kg = ___ g
172 kg + 290 g + 819 kg = 172000 g + 290 g + 819000 g
172 kg + 290 g + 819 kg = 991290 g

Question 9: Trevor wants to know which is greater, 92 kg or 90000g. Can you help him find out?

Solution:
Using, 1kg = 1000 g
92 kg = 92 × 1000 g
⇒ 92 kg = 92000 g
Clearly, 92000 g is greater than 90000 g.
Hence, 92 kg > 90000g.

Question 10: Fill in the blanks with the appropriate conversion:
92 l + 892 ml + 597 l = ___ ml

Solution:
Using, 1 l = 1000 ml
92 l = 92 × 1000 ml = 92000 ml
597 l = 597000 ml
⇒ 92 l + 892 ml + 597 l = 92000 + 892 + 597000
⇒ 92 l + 892 ml + 597 l = 689892 ml

FUN FACT

1. A mega is 1000 times of Kilo, Giga is 1000 times of Mega and a Tera is 1000 times of Giga.

2. Remember using the mnemonic "King Henry Died of Drinking Cold Milk", which represents " Kilo, Hecto, Deca, Deci, Centi, and Milli".

3. Number 10 is used as the base of the Metric system.