



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 3



Topic
Capacity



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Worksheet on Capacity

1. Fill in the blanks:

96 pints = _____ gallons

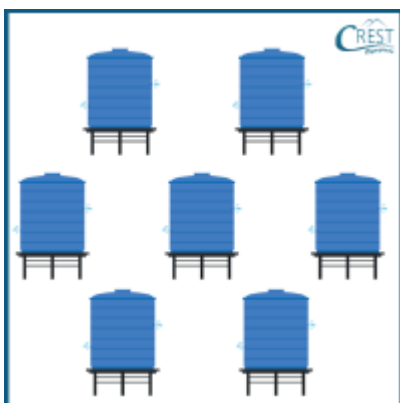
- a. 6
- b. 8
- c. 12
- d. 16

2. A bathtub can hold 150 litres of water. If Jenny fills the tub with a bucket that carries 15 litres of water, how many buckets of water does she need to fill the bathtub?



- a. 5 buckets
- b. 10 buckets
- c. 15 buckets
- d. 20 buckets

3. The capacity of a tank is 1500 Quarts. What is the total capacity of given tanks in Pints?



- a. 10500 Pints
- b. 21000 Pints
- c. 15750 Pints
- d. 42000 Pints

4. The capacity of a cooker is 4 L 200 mL. What is the capacity of such three cookers in mL?



- a. 4200 mL
b. 8400 mL
c. 10600 mL
d. 12600 mL
5. A washing machine can take 12 L of water and 65 mL of liquid detergent to clean clothes. What is its total capacity in mL?



- a. 12065 mL
b. 12165 mL
c. 12250 mL
d. 12650 mL

Answer Key

1. c - 12

Explanation: 1 Gallon = 8 Pints
 $96 \text{ pints} = 96 \div 8 = 12 \text{ gallons}$

2. b - 10 buckets

Explanation: Quantity of water a bathtub can hold = 150 L

Quantity of water bucket can hold = 15 L

The number of buckets needed to fill 150 litres = $150 \div 15$
= 10 buckets

Thus, Jenny needs 10 buckets to fill the bathtub.

3. b - 21000 Pints

Explanation: Capacity of a tank = 1500 Quarts
Capacity of 7 tanks = $7 \times 1500 \text{ Quarts}$
= 10500 Quarts

We know that 1 Quart = 2 Pints

Capacity of 7 tanks in Pints = $10500 \times 2 \text{ Pints} = 21000 \text{ Pints}$

4. d - 12600 mL

Explanation: Capacity of a cooker = 4 L 200 mL
= 4 L + 200 mL
= $4 \times 1000 \text{ mL} + 200 \text{ mL}$
= 4000 mL + 200 mL
= 4200 mL

Capacity of such three cookers in mL = $3 \times 4200 \text{ mL}$
= 12600 mL

5. a - 12065mL

Explanation: Total capacity of machine to hold water and liquid detergent = 12 L + 65 mL
= $12 \times 1000 \text{ mL} + 65 \text{ mL}$
= 12000 mL + 65 mL
= 12065mL

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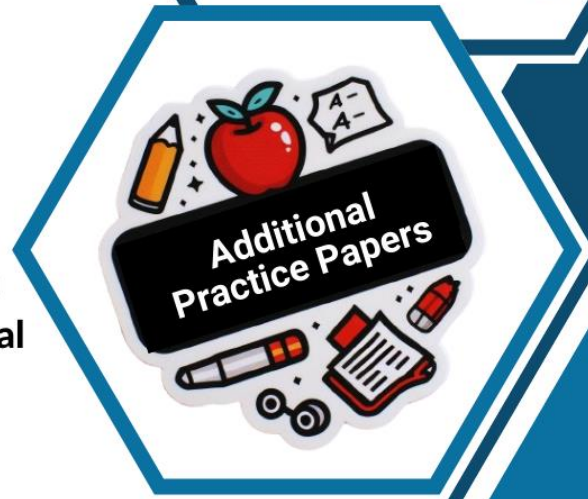
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