CREST

Olympiads

#CRESTInnovator

CREST Mathematics Olympiad (CMO)
Worksheet *for*

Class 4

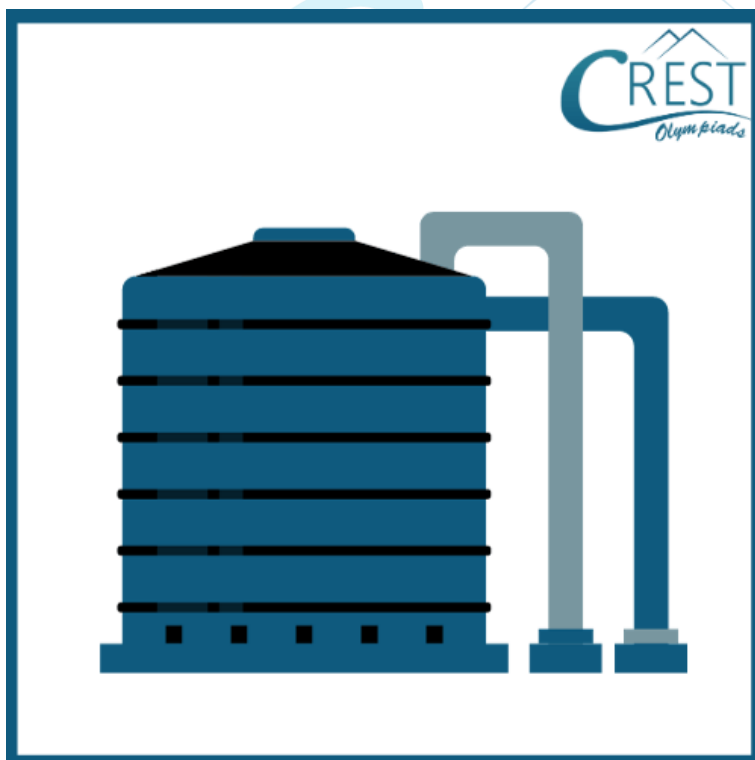# Worksheet on Capacity

1. **Fill in the blank:**

    (850 ÷ 5 × 30) dL = _____ hL

    a. 0.051
    b. 0.51
    c. 5.1
    d. 51

2. **A dairy farm produced 1200 litres of milk last month. The production for each day was 42.15 litres this month. What is the difference in the amount of milk in millilitres produced if both months are 30 days?**

    a. 6.45 mL
    b. 645 mL
    c. 6450 mL
    d. 64500 mL

3. **The tank is filled to 3/8th of its capacity and the total capacity of the tank is 200 hL. What is the amount of water in litres that can be filled to the brim?**

    a. 750 L
    b. 7500 L
    c. 1250 L
    d. 12500 L

4. **Convert the quantity 143.735 decalitres into kilolitres.**

    a. 14.3735 kilolitres
    b. 1.43735 kilolitres
    c. 143.735 kilolitres
    d. 1437.35 kilolitres

5. **700 gallons are filled in the fuel tank of an aeroplane. What is the amount of fuel left in pints if the fuel used is 1600 quarts?**

    a. 1200
    b. 1600
    c. 2400
    d. 2800

Answer Key

1. c - 5.1

   Explanation: (850 ÷ 5 × 30) dL = [(850 ÷ 5) × 30] dL [Using BODMAS]
   $$= (170 × 30) \text{ dL}$$
   $$= 5100 \text{ dL}$$
   $$= 5100/1000 \text{ hL}$$
   $$= 5.1 \text{ hL}$$

2. d - 64500 mL

   Explanation: Quantity of milk produced in last month = 1200 L
   Quantity of milk produced in this month = 42.15 × 30
   $$= 1264.5 \text{ L}$$
   Difference in production of milk = (1264.5 − 1200) L
   $$= 64.5 \text{ L}$$
   Difference in production of milk in mL = 64.5 × 1000 (Since, 1 L = 1000 mL)
   $$= 64500 \text{ mL}$$

3. d - 12500 L

   Explanation: Total capacity of the tank = 200 hL
   Amount of water currently in the tank = (3/8) × 200
   $$= 75 \text{ hL}$$
   Amount of water that can be filled to reach the brim = 200 − 75
   $$= 125 \text{ hL}$$
   Amount of water in litres that can be filled to reach the brim = 125 × 100
   $$= 12500 \text{ L}$$

4. b - 1.43735 kilolitres

   Explanation: 143.735 decalitres = 143.735 ÷ 100 kilolitres
   $$= 1.43735 \text{ kilolitres}$$

5. c - 2400

   Explanation: Capacity of fuel tank of an aeroplane = 700 gallons
   Fuel used = 1600 quarts
   $$= 1600 ÷ 4$$
   $$= 400 \text{ gallons}$$
   Amount of fuel left in the tank = 700 - 400
   $$= 300 \text{ gallons}$$
   Amount of fuel left in the tank in pints = 300 × 8 (Since, 1 gallon = 8 pints)
   $$= 2400 \text{ pints}$$

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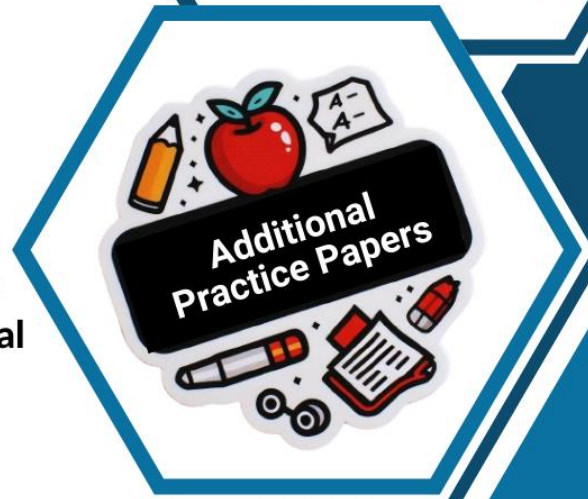2. Go to Dashboard -> Additional Practice -> Buy

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