CREST

Olympiads

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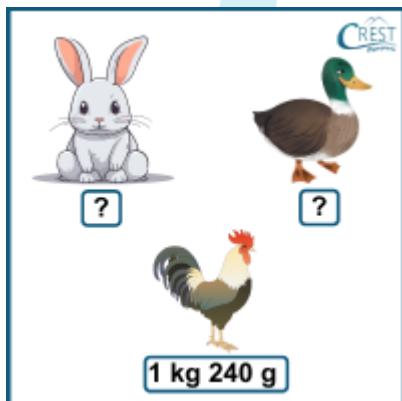
CREST Mathematics Olympiad (CMO)
Worksheet *for*

Class 5

Worksheet on Weight

1. **Lawrence buys 1 kg 250 g of carrots, 3 kg 450 g of onions, 4 kg 675 g of potatoes, 1 kg 345 g of garlic, and 285 g of ginger from the market and puts them all in her bag. What is the total weight of her bag, including its own weight of 97 g?**

   a. 10 kg 101 g
   b. 10 kg 102 g
   c. 11 kg 101 g
   d. 11 kg 102 g

2. **The weight of a rabbit is 4 kg 375 g more than the weight of a duck. The weight of a hen is 538 g less than the weight of a duck. What is the weight of a rabbit in hectograms if the weight of a hen is 1 kg 240 g?**

   a. 0.6153 hg
   b. 6.153 hg
   c. 61.53 hg
   d. 615.3 hg

3. **The cake weighing 18 pounds was delivered by Amelia. About 257 ounces of cake are distributed among the guests. What is the amount of cake left?**

a. 30 ounces
b. 31 ounces
c. 32 ounces
d. 33 ounces

4. **How much rice and pulses in decagrams are needed for 60 children if 165 g of rice and 127 g of pulses per child are required to make a midday meal?**

a. Rice: 99 dag ; Pulses: 76.2 dag
b. Rice: 990 dag ; Pulses: 76.2 dag
c. Rice: 9.90 dag ; Pulses: 762 dag
d. Rice: 990 dag ; Pulses: 762 dag

5. The weight of the apple box is three times the weight of the mango box. The weight of the banana box is two-thirds the weight of the apple box. The weight of a mango box is half the weight of an orange. What is the weight of the banana box in decigrams if the weight of the orange box is 432 hg?

   a. 43200 dg
   b. 432000 dg
   c. 86400 dg
   d. 864000 dg

Answer Key

1. d - 11 kg 102 g

   Explanation: Weight of carrots = 1 kg 250 g
   = 1 kg + 250 g
   = (1 × 1000) g + 250 g
   = 1000 g + 250 g
   = 1250 g
   Weight of onions = 3 kg 450 g
   = 3 kg + 450 g
   = (3 × 1000) g + 450 g
   = 3000 g + 450 g
   = 3450 g
   Weight of potatoes = 4 kg 675 g
   = 4 kg + 675 g
   = 4000 g + 675 g
   = 4675 g
   Weight of garlic = 1 kg 345 g
   = 1 kg + 345 g
   = 1000 g + 345 g
   = 1345 g
   Weight of ginger = 285 g
   Weight of bag = 97 g
   Total weight of her bag = 1250 g + 3450 g + 4675 g + 1345 g + 285 g + 97 g
   = 11102 g
   = 11 kg 102 g

2. c - 61.53 hg

Explanation: Weight of a hen = 1 kg 240 g
Weight of a hen is 538 g less than the weight of a duck. Thus, the weight of a duck is 538 g more than the weight of a hen.
Weight of a duck = Weight of a hen + 538 g
      = 1 kg 240 g + 538 g
      = 1 kg + 240 g + 538 g
      = 1000 g + 240 g + 538 g
      = 1778 g
Weight of a rabbit is 4 kg 375 g more than the weight of a duck.
Weight of a rabbit = Weight of a duck + 4 kg 375 g
      = 1778 g + 4 kg + 375 g
      = 1778 g + 4000 g + 375 g
      = 6153 g
      = (6153 ÷ 1000) kg
      = 6.153 kg
      = (6.153 × 10) hg
      = 61.53 hg

3. c - 31 ounces

Explanation: Total weight of the cake = 18 pounds
          = 18 × 16 ounces
          = 288 ounces
Weight of the cake distributed among the guests = 257 ounces
Weight of the cake left = (288 − 257) ounces
        = 31 ounces

4. d - Rice: 990 dag; Pulses: 762 dag

Explanation: Weight of rice per child = 165 g
Weight of rice for 60 children = 165 g × 60
          = 9900 g
Weight of rice for 60 children in decagram = 9900 g ÷ 10
           = 990 dag
Weight of pulses per child = 127 g
Weight of pulses for 60 children = 127 g × 60
          = 7620 g
Weight of pulses for 60 children in decagram = 7620 g ÷ 10
            = 762 dag

5. b - 432000 dg

Explanation: Weight of the orange box = 432 hg
The weight of a mango box is half that of an orange box.
Weight of a mango box = (1/2) × Weight of an orange box
$\qquad$ = (1/2) × 432
$\qquad$ = 216 hg
The weight of the apple box is three times that of the mango box.
Weight of the apple box = 3 × Weight of a mango box
$\qquad$ = 3 × 216
$\qquad$ = 648 hg
The weight of the banana box is two-thirds the weight of the apple box.
Weight of the banana box = (2/3) × Weight of the apple box
$\qquad$ = (2/3) × 648
$\qquad$ = 432 hg
Weight of the banana box in decigrams = 432 hg × 1000
$\qquad$ = 432000 dg

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