CREST Mathematics Olympiad (CMO)
Worksheet *for*

Class 5

Topic

Fractions and Decimals

Worksheet on Fractions and Decimals

1. **Subtract 5/12 from 3/7?**

    a. 1/84
    b. 7/84
    c. 12/84
    d. 71/84

2. **What is the amount paid by the customer to purchase the given items?**

    a. $91.19
    b. $101.19
    c. $111.19
    d. $121.19

3. **What is the total cost of given wooden decks if the cost of a desk is $40.25?**

    a. $120.25
    b. $120.35
    c. $120.55
    d. $120.75

4. **The cost of five chocolates is $10.5. What is the cost of each chocolate?**

a. $1.2
b. $1.1
c. $2.1
d. $3.1

5. **The weight of a packet of potato chips is 26.30 g and the weight of a packet of banana chips is 30.55 g. Which packet has more weight and by how much?**

a. Banana chips have a weight of 4.05 g more than potato chips.
b. Potato chips have a weight of 4.05 g more than banana chips.
c. Banana chips have a weight of 4.25 g more than potato chips.
d. Potato chips have a weight of 4.25 g more than banana chips.

Answer Key

1. a - 1/84

    Explanation: The subtraction is shown as:

$$\frac{3}{7} - \frac{5}{12} \quad \text{Convert unlike fractions into like fractions}$$

[Least Common Multiple (LCM) of 7 and 12 is 8.4]

$$\frac{3}{7} = \frac{3 \times 2}{7 \times 12} = \frac{36}{84}$$

$$\frac{5}{12} = \frac{5 \times 7}{12 \times 7} = \frac{35}{84}$$

Subtract:

$$\frac{3}{7} - \frac{5}{12} = \frac{36}{84} - \frac{35}{84} = \frac{36 - 35}{84} = \frac{1}{84}$$

2. c - $111.19

    Explanation: Amount paid by the customer to purchase the given items = $99.99 + $11.2 = $111.19

    The addition is shown as:

3. d - $120.75

Explanation: Cost of 1 wooden deck = $40.25
Total cost of 3 wooden decks = 3 x $40.25 = $120.75
The multiplication is shown as:

4. c - $2.1

Explanation: Cost of 5 chocolates = $10.5
Cost of 1 chocolate = $10.5 ÷ 5 = $2.1
The division is shown as

5. c - Banana chips have a weight of 4.25 g more than potato chips.

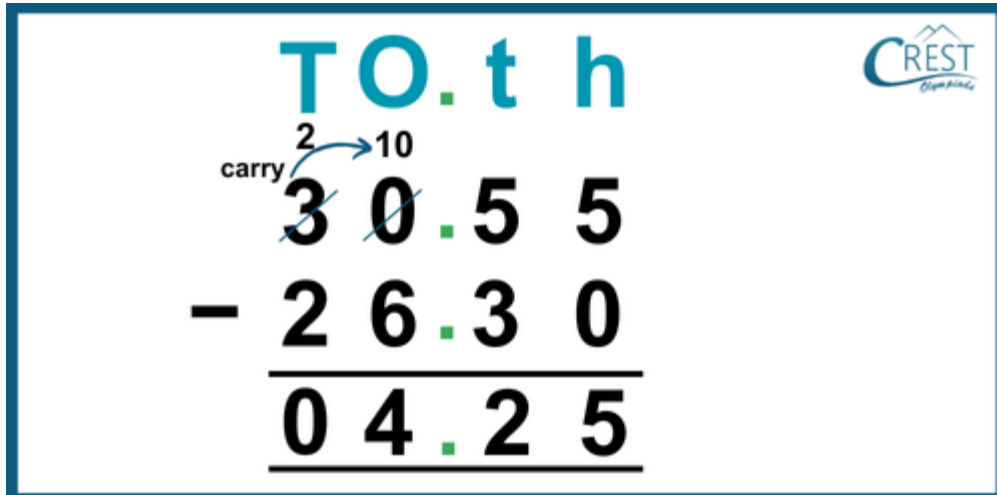**Explanation:** Weight of a packet of potato chips = 26.30 g
Weight of a packet of banana chips = 30.55 g
Weight of a packet of banana chips is more than potato chips.
The difference in weight = 30.55 − 26.30 = 4.25 g
Banana chips have a weight of 4.25 g more than potato chips.
Subtraction is shown as:

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