



CREST Mathematics Olympiad (CMO) Worksheet *for* Class 6



Topic
Decimals



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Worksheet on Decimals

1. The product of the two numbers is 18.585. If one number is 5.9, what is the other number?
 - a. 3.05
 - b. 3.15
 - c. 3.25
 - d. 3.95
2. The fat content is 213 grams in one kilogram of pure milk. What is the fat content in 195 kilograms of milk?
 - a. 41 kg 235 g
 - b. 41 kg 335 g
 - c. 41 kg 435 g
 - d. 41 kg 535 g
3. Billy purchased 5 litres of 400 millilitres of mustard oil, 2 litres of 20 millilitres of soya bean oil and 10 litres of 850 millilitres of sunflower oil. What is the total volume of his purchases?
 - a. 18 L 070 mL
 - b. 18 L 270 mL
 - c. 18 L 470 mL
 - d. 18 L 670 mL
4. If the bags of Mark Cope and Carlo Moss weigh 5.2 kilograms and 4.832 kilograms, respectively, what is the difference in weight between their bags?
 - a. 268 grams
 - b. 286 grams
 - c. 368 grams
 - d. 386 grams
5. Which of the following statements represent the decimal number 37.039 in words?
 - a. Thirty-seven point thirty-nine
 - b. Thirty-seven-point ninety-three
 - c. Thirty-seven point zero three nine
 - d. Thirty-seven point zero nine three

Answer Key

1. b - 3.15

Explanation: Product of the two numbers = 18.585

One number = 5.9

Other number = $18.585 \div 5.9 = 3.15$

2. d - 41 kg 535 g

Explanation: Fat content in 1 kilogram of pure milk = $213 \text{ g} \div 1000 = 0.213 \text{ kg}$

Fat content in 195 kilograms of milk = $(195 \times 0.213) \text{ kg}$

= 41.535 kg

= 41 kg + 0.535 kg

= 41 kg + $(0.535 \times 1000) \text{ g}$

= 41 kg + 535 g

= 41 kg 535 g

3. b - 18 L 270 mL

Explanation: Quantity of mustard oil Billy purchased = 5 L 400 mL

= 5 L + 400 mL

= 5 L + $(400/1000) \text{ L}$

= 5 L + 0.4 L

= 5.4 L

Quantity of Soya bean oil Billy purchased = 2 L 20 mL

= 2 L + 20 mL

= 2 L + $(20/1000) \text{ L}$

= 2 L + 0.02 L

= 2.02 L

Quantity of sunflower oil Billy purchased = 10 L 850 mL

= 10 L + 850 mL

= 10 L + 850 mL

= 10 L + $(850/1000) \text{ L}$

= 10 L + 0.85 L

= 10.85 L

Total volume of his purchases = $(5.4 + 2.02 + 10.85) \text{ L}$

= $(5.400 + 2.020 + 10.850) \text{ L}$

= 18.270 L

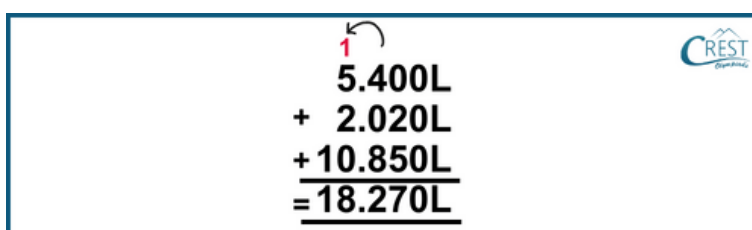
= 18 L + 0.270 L

= 18 L + $(0.270 \times 1000) \text{ mL}$

= 18 L + 270 mL

= 18 L 270 mL

Addition is shown as:


$$\begin{array}{r} 5.400\text{L} \\ + 2.020\text{L} \\ + 10.850\text{L} \\ \hline = 18.270\text{L} \end{array}$$

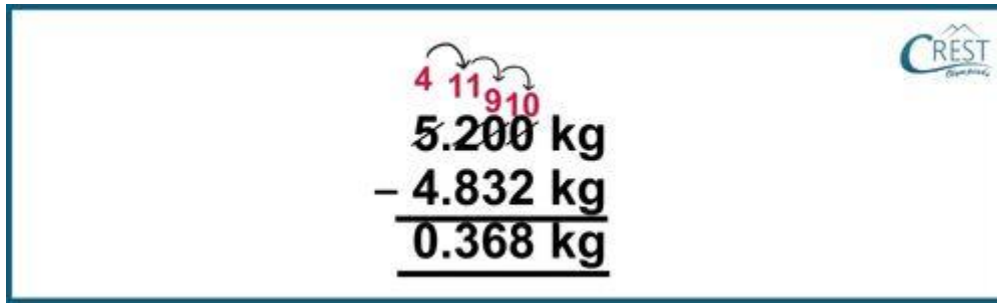
4. c - 368 grams

Explanation: Weight of bag of Mark Cope = 5.2 kg

Weight of bag of Carlo Moss = 4.832 kg

$$\begin{aligned}\text{Difference in weight between their bags} &= (5.2 - 4.832) \text{ kg} \\ &= (5.200 - 4.832) \text{ kg} \\ &= 0.368 \text{ kg} \\ &= (0.368 \times 1000) \text{ g} \\ &= 368 \text{ g}\end{aligned}$$

Subtraction is shown as:


$$\begin{array}{r} 5.200 \text{ kg} \\ - 4.832 \text{ kg} \\ \hline 0.368 \text{ kg} \end{array}$$

5. c - Thirty-seven point zero three nine

Explanation: Statement in words for the decimal number 37.039 is thirty-seven point zero three nine.

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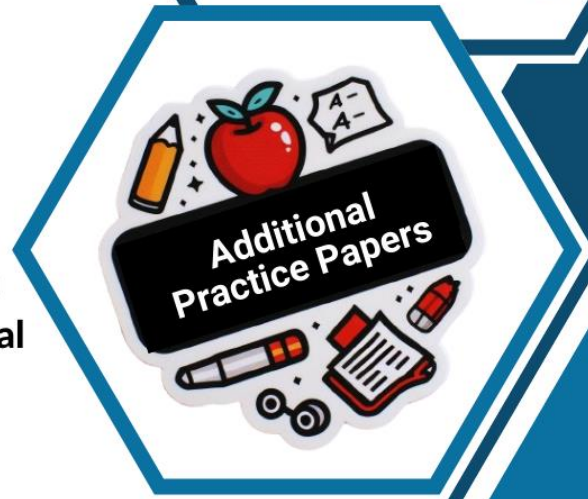
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