



# CREST Mathematics Olympiad (CMO) Worksheet *for*

**Class 4**



**Topic**  
**Weight**



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## Worksheet on Weight

1. The weight of a thin boy is 45 kg less than that of a fat boy. What is the weight in hectograms of a fat boy if the weight of a thin boy is 42 kg?



- a. 8.7 hg
  - b. 87 hg
  - c. 870 hg
  - d. 8700 hg
2. Each bottle weighs 390 grams. What is the total weight of three dozen similar bottles?



- a. 14 kg 40 g
- b. 14 kg 400 g
- c. 14 kg 44 g
- d. 14 kg 440 g

3. What is the weight of a score of balls in grams if the weight of each ball is 1400 milligrams?



- a. 14 g
  - b. 28 g
  - c. 140 g
  - d. 280 g
4. The weight of a laptop is 1800 decigrams. What is the weight in decagrams of the four such laptops?



- a. 18 dag
  - b. 36 dag
  - c. 72 dag
  - d. 108 dag
5. Fill up the blank:  $40 \times 5.2 \text{ hg} = \underline{\hspace{2cm}} \text{cg}$
- a. 2080000 cg
  - b. 0.208 cg
  - c. 208000 cg
  - d. 2.08 cg

## Answer Key

1. c - 870 hg

**Explanation:** Weight of a thin boy = 42 kg

Weight of a thin boy is 45 kg less than that of a fat boy. Hence, the weight of a fat boy is 45 kg more than that of a thin boy.

Weight of a fat boy =  $42 + 45 = 87$  kg

Using  $1 \text{ kg} = 10 \text{ hg}$

Weight of a fat boy in hectograms (hg) =  $87 \times 10 = 870 \text{ hg}$

2. a - 14 kg 40 g

**Explanation:** Weight of one bottle = 390 g

We know that 1 dozen = 12

So, 3 dozen bottles =  $3 \times 12 = 36$  bottles

Weight of three dozen (36) similar bottles =  $390 \times 36$

$$= 14040 \text{ g}$$

$$= 14000 \text{ g} + 40 \text{ g}$$

$$= \frac{14000}{1000} + 40 \text{ g}$$

$$= 14 \text{ kg } 40 \text{ g}$$

3. b - 28 g

**Explanation:** Weight of a ball = 1400 mg

We know that 1 score = 20

Weight of a score of balls =  $1400 \times 20$

$$= 28000 \text{ mg}$$

$$\begin{aligned} \text{Weight of a score of balls in grams} &= \frac{28000}{1000} \\ &= 28 \text{ g} \end{aligned}$$

4. c - 72 dag

**Explanation:** Weight of 1 laptop = 1800 decigrams (dg)

Weight of 1 laptop =  $1800/100$

$$= 18 \text{ decagrams (dag)}$$

Weight of 4 laptops =  $18 \times 4$

$$= 72 \text{ dag}$$

5. a - 2080000 cg

**Explanation:**  $40 \times 5.2 \text{ hg}$

$$= 208 \text{ hg}$$

$$= 208 \times 10000$$

$$= 2080000 \text{ cg}$$

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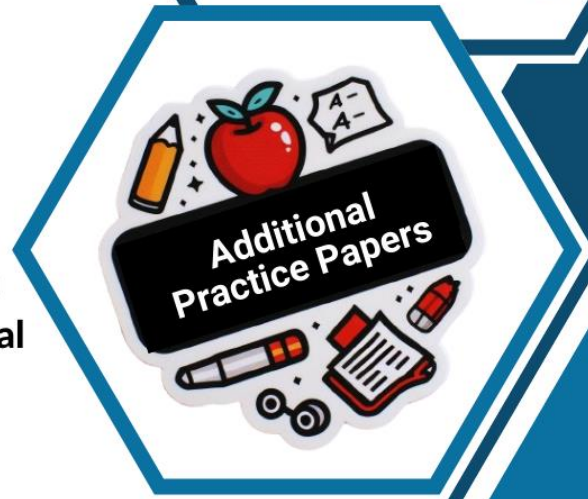
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