

9.12.21
c.w

ch-16 Measurement



Ex 16 (A)

1. Express in m, dm, cm and mm:

a) $8.425\text{ m} = 8\text{ m}, 4\text{ dm}, 2\text{ cm}, 5\text{ mm}$

b) $7.75 = 7\text{ m}, 7\text{ dm}, 5\text{ cm}$

c) $27.078\text{ m} = 27\text{ m}, 7\text{ cm}, 8\text{ mm}$

d) $52.064\text{ m} = 52\text{ m}, 6\text{ cm}, 4\text{ mm}$

2a) ~~8m~~ $8\text{ m}, 6\text{ dm}, 5\text{ cm}, 2\text{ mm} = 8.652\text{ m}$

b) $10\text{ m}, 8\text{ dm}, 6\text{ cm}, 5\text{ mm} = 10.865\text{ m}$

c) $15\text{ m}, 8\text{ dm}, 1\text{ cm}, 9\text{ mm} = 15.819\text{ m}$

d) $1\text{ m}, 3\text{ dm}, 7\text{ cm} = 1.37\text{ m}$

3. Express in km, hm, dam and m

a. $2.355\text{ km} = 2\text{ km}, 3\text{ hm}, 5\text{ dam}, 5\text{ m}$

b. $8.162\text{ km} = 8\text{ km}, 1\text{ hm}, 6\text{ dam}, 2\text{ m}$

$$c. 30.750 \text{ km} = 30 \text{ km}, 7 \text{ hm}, 5 \text{ dam},$$

$$d. 35.250 \text{ km} = 35 \text{ km}, 2 \text{ hm}, 5 \text{ dam}$$

$$4.a. 1 \text{ km}, 1 \text{ hm}, 2 \text{ dam}, 9 \text{ m} = 1.129 \text{ km}$$

$$b. 7 \text{ km}, 8 \text{ hm}, 2 \text{ dam}, 2 \text{ m} = 7.822 \text{ km}$$

$$c. 50 \text{ km}, 8 \text{ dam}, 7 \text{ m} = 50.087$$

$$d. 24 \text{ km}, 5 \text{ hm}, 6 = \cancel{24.56} 24.506$$

$$5.a. 3.127 = 3 \text{ kg}, 1 \text{ hg}, 2 \text{ dag}, 7 \text{ g}$$

$$b. 16.485 \text{ kg} = 16 \text{ kg}, 4 \text{ hg}, 8 \text{ dag}, 5 \text{ g}$$

$$c. 6.758 \text{ kg} = 6 \text{ kg}, 7 \text{ hg}, 5 \text{ dag}, 8 \text{ g}$$

$$d. 0.48 \text{ kg} = 4 \text{ hg}, \cancel{0} 8 \text{ dag}$$

$$6.a. 2 \text{ kg}, 2 \text{ hg}, 7 \text{ dag}, 2 \text{ g} = 2.272$$

$$b. 5 \text{ kg}, 5 \text{ hg}, 1 \text{ dag}, 5 \text{ g} = 5.515$$

$$c. 7 \text{ kg}, 2 \text{ dag}, 7 \text{ g} = 7.027$$

d. $5\text{hg } 3\text{g} = 0.503$

e. $10\text{kg } 6\text{hg } 5\text{dag} = 10.650$

f. $6\text{hg } 4\text{dag } 2\text{g} = 0.642$

g. $6\text{kg } 5\text{g} = 6.005$

h. $9\text{kg } 6\text{dag} = 9.060$

7.a. $3.164\text{g} = 3\text{gm}, 1\text{dg}, 6\text{cg}, 4\text{mg}$

b. $5.750\text{g} = 5\text{gm}, 7\text{dg}, 5\text{cg}$

c. ~~5.5~~ $0.5\text{g} = 5\text{dg}$

d. $0.185\text{g} = \cancel{1\text{dg}} \cancel{8} 1\text{dg}, 8\text{dg}^{\text{cg}}, 5\text{mg}$

e. ~~7mg~~ $17.06\text{g} = 17\text{gm}, 6\text{cg}$

f. ~~0.75g~~ $0.75\text{g} = 7\text{dg } 5\text{cg}$

g. $9.009\text{g} = 9\text{gm}, 9\text{mg}$

h. $0.008\text{g} = 8\text{mg}$

$$8a. 6g \ 7dg \ 2mg = \cancel{6.702} \quad \text{or } 6.702$$

$$b. 2g \ 2dg \ 7cg \ 1mg = 2.271g$$

$$c. 5dg \ 7cg \ 2mg = 0.572g$$

$$d. 6cg \ 6mg = 0.066g$$

$$e. \cancel{17.06g} = \cancel{17.06g} = 17$$

$$e. 7mg = 0.007g$$

$$f. 9mg = 0.009g$$

$$g. 8cg = 0.080g$$

$$h. 5dg = 0.500g$$