Unit # 12 – Volume
Sec: C Word problems

Answers of the given home work

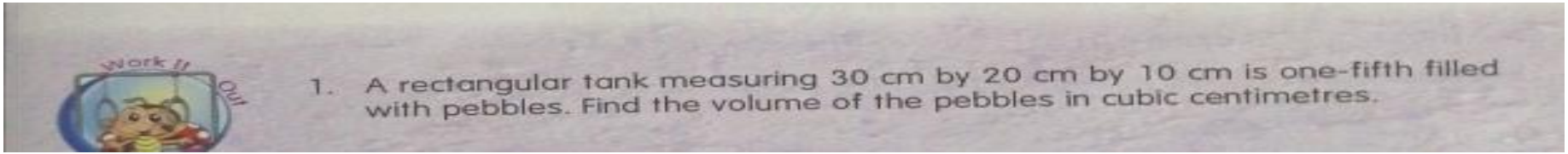
Activity book page : 83-Q.No 1, 2 & 3

Text book page: 95 - Q. No. 1& 2

(Do the text book problems in your notebook)

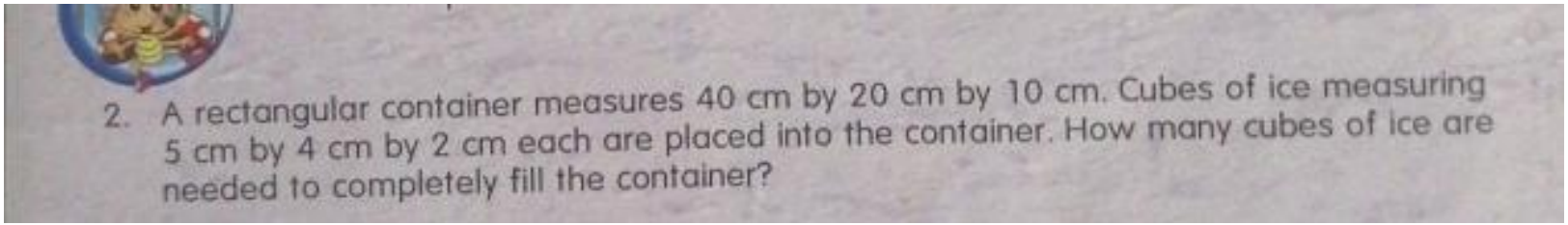
Please check your answers and correct the wrong ones

Refer text book pg:95 Q.no1



Volume of rectangular tank= length x breadth x height = 30cm x 20cm x 10cm = 600x 10cm³ **Volume = 6000cm³**	Volume of pebbles =1/5 of 6000cm³ =1/5 x 6000 = 6000 ÷ 5 = 1200cm³

Refer text book pg:95 Q.no2



2. A rectangular container measures 40 cm by 20 cm by 10 cm. Cubes of ice measuring 5 cm by 4 cm by 2 cm each are placed into the container. How many cubes of ice are needed to completely fill the container?

Volume of rectangular container= length x breadth x height

= 40cm x 20cm x 10cm

= 800x 10cm³

Volume = 8000cm³

Volume of ice cube= length x breadth x height

= 5cm x 4cm x 2cm

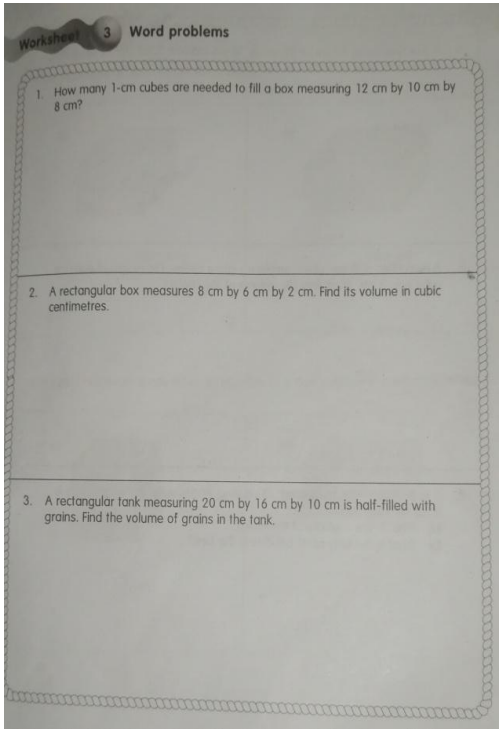
= 20x 2cm³

Volume = 40cm³

No. of ice cubes = 8000 ÷ 40 = 200 ice cubes

800 ÷ 4 = 200 ice cubes

Activity book pg:83



Worksheet 3 Word problems

1. How many 1-cm cubes are needed to fill a box measuring 12 cm by 10 cm by 8 cm?

2. A rectangular box measures 8 cm by 6 cm by 2 cm. Find its volume in cubic centimetres.

3. A rectangular tank measuring 20 cm by 16 cm by 10 cm is half-filled with grains. Find the volume of grains in the tank.

1) Volume of a box = length x breadth x height

= 12cm x 10cm x 8cm

= 120x 8cm³

Volume = 960cm³

2) Volume of rectangular box = length x breadth x height

= 8cm x 6cm x 2cm

= 48 x 2cm³

Volume = 96cm³

3) Volume of tank = length x breadth x height

= 20cm x 16cm x 10cm

= 320x 10cm³

Volume = 3200cm³

volume of grains = ½ of 3200cm³

= 3200 ÷ 2

volume of grains = 1600cm³