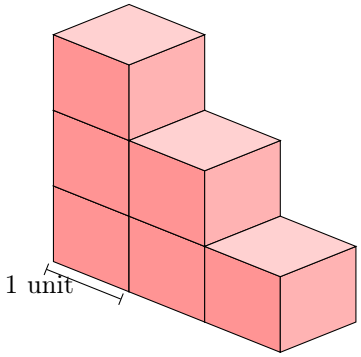
VOLUME

A DEFINITION

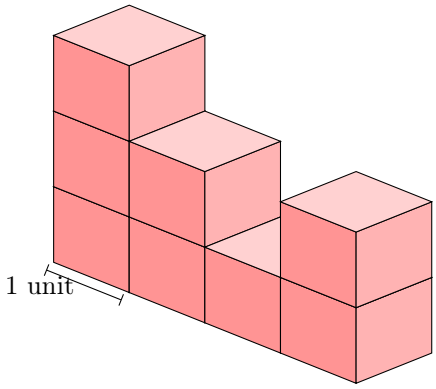
A.1 FINDING VOLUME OF A SHAPE

Ex 1: What is the volume of the red figure?



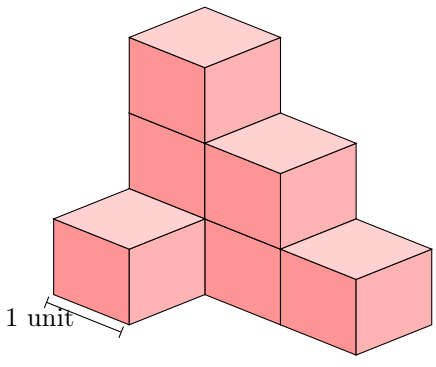
☐ cubic units

Ex 2: What is the volume of the red figure?



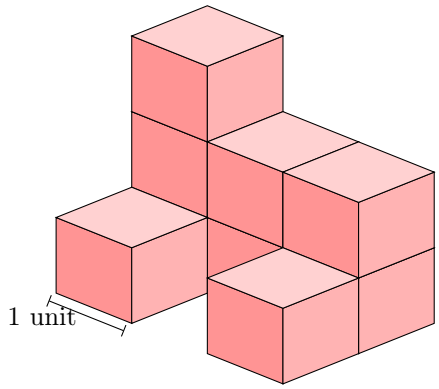
☐ cubic units

Ex 3: What is the volume of the red figure?



☐ cubic units

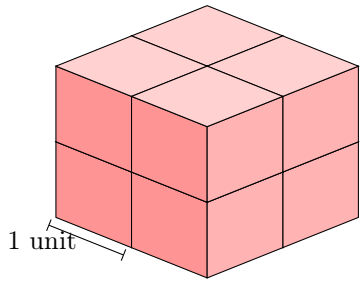
Ex 4: What is the volume of the red figure?



☐ cubic units

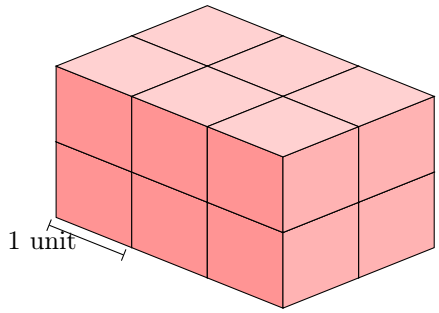
A.2 FINDING VOLUME OF A RECTANGULAR CUBOID

Ex 5: What is the volume of the red figure?



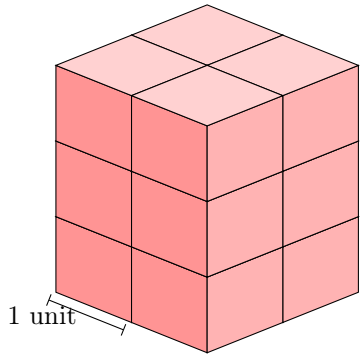
☐ cubic units

Ex 6: What is the volume of the red figure?



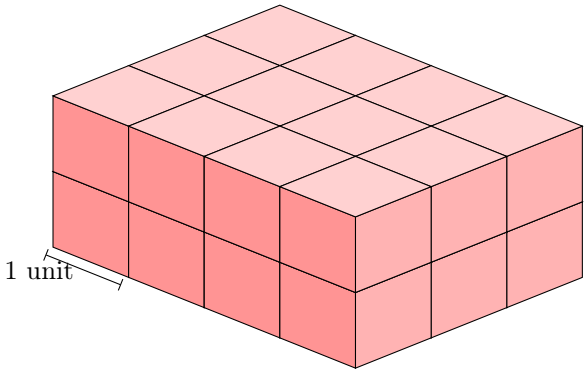
☐ cubic units

Ex 7: What is the volume of the red figure?



☐ cubic units

Ex 8: What is the volume of the red figure?



☐ cubic units

B UNITS OF VOLUME

B.1 CHOOSING UNITS FOR VOLUME

MCQ 9: What unit will be used to measure the volume of your bedroom?

Choose 1 answer:

☐ Cubic centimeters

☐ Cubic meters

MCQ 10: What unit will be used to measure the volume of a small toy block?

Choose 1 answer:

☐ Cubic centimeters

☐ Cubic meters

MCQ 11: What unit will be used to measure the volume of a bottle of milk?

Choose 1 answer:

☐ Cubic centimeters

☐ Cubic meters

MCQ 12: What unit will be used to measure the volume of a swimming pool?

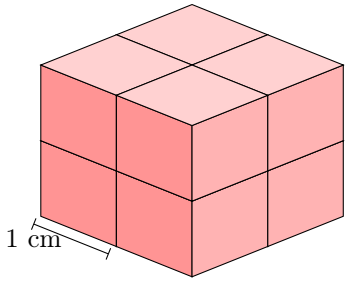
Choose 1 answer:

☐ Cubic centimeters

☐ Cubic meters

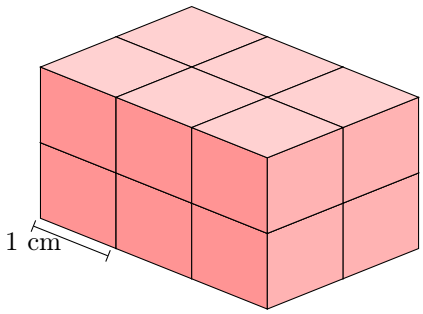
B.2 FINDING VOLUME OF A RECTANGULAR CUBOID

Ex 13: What is the volume of the red figure?



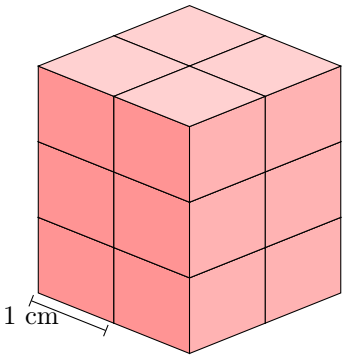
☐ cm^3
☐ m^3

Ex 14: What is the volume of the red figure?



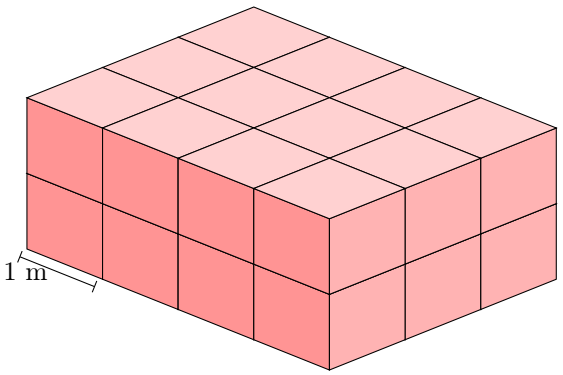
☐ cm^3
☐ m^3

Ex 15: What is the volume of the red figure?



☐ cm^3
☐ m^3

Ex 16: What is the volume of the red figure?

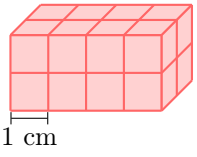


☐ cm^3
☐ m^3

C VOLUME OF A RECTANGULAR CUBOID

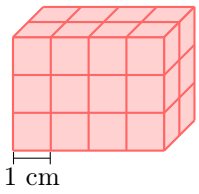
C.1 FINDING VOLUMES OF A RECTANGULAR CUBOIDS

Ex 17: What is the volume of the red figure?



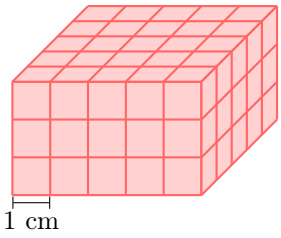
$\square$ cm^3

Ex 18: What is the volume of the red figure?



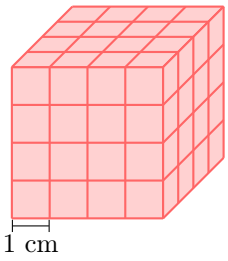
$\square$ cm^3

Ex 19: What is the volume of the red figure?



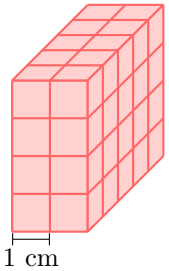
$\square$ cm^3

Ex 20: What is the volume of the red figure?



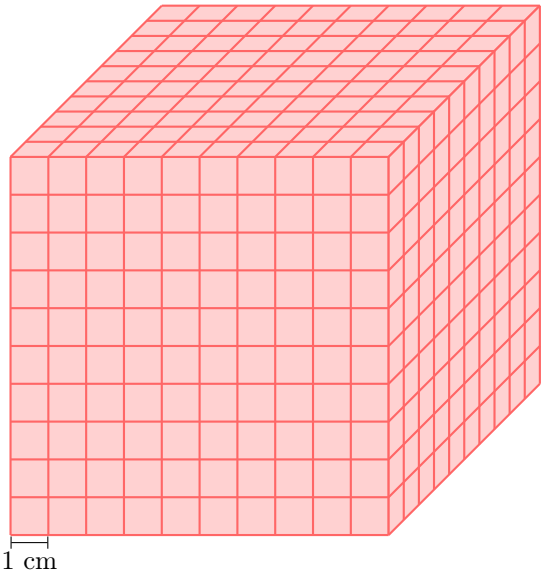
$\square$ cm^3

Ex 21: What is the volume of the red figure?



$\square$ cm^3

Ex 22: What is the volume of the red figure?



$\square$ cm^3

C.2 SOLVING PROBLEMS

Ex 23: A rectangular swimming pool is 8 m long, 5 m wide, and 2 m deep. The water costs 10 dollars per cubic meter.
What is the volume of the swimming pool?

$\square$ m^3

What is the cost to fill the swimming pool with water?

$\square$ dollars

Ex 24: A container has a volume of 20 m^3. A box is 2 m long, 1 m wide, and 0.5 m high.
What is the volume of the box?

$\square$ m^3

How many boxes can fit inside the container?

$\square$ boxes

Ex 25: A storage room has a volume of 150 m^3. A water tank is 5 m long, 2 m wide, and 3 m high.
What is the volume of the water tank?

$\square$ m^3

How many water tanks can fit inside the storage room?

$\square$ water tanks

Ex 26: A rectangular fish tank is 2 m long, 1 m wide, and 1 m deep. The water costs 15 dollars per cubic meter.
What is the volume of the fish tank?

$\square$ m^3

What is the cost to fill the fish tank with water?

$\square$ dollars