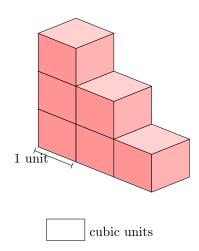
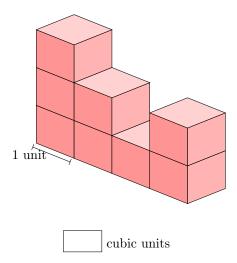
A DEFINITION

A.1 FINDING VOLUME OF A SHAPE

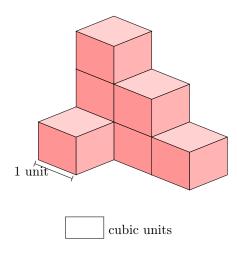
Ex 1: What is the volume of the red figure?



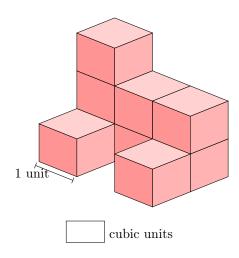
Ex 2: What is the volume of the red figure?



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

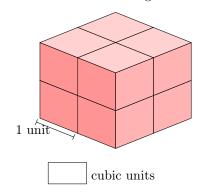


Ex 4: What is the volume of the red figure?

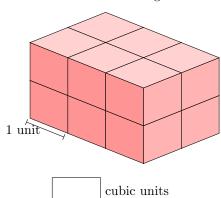


A.2 FINDING VOLUME OF A RECTANGULAR CUBOID

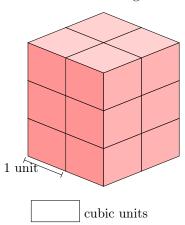
Ex 5: What is the volume of the red figure?



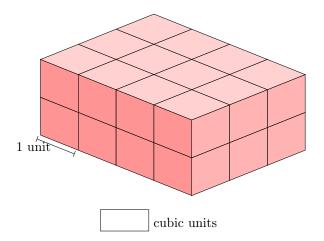
Ex 6: What is the volume of the red figure?



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



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



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:

	α 1.		1.
11	Cubic	mil	limeters

- □ Cubic centimeters
- ☐ Cubic meters

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

Choose 1 answer:

- ☐ Cubic millimeters
- ☐ Cubic centimeters
- ☐ Cubic meters

MCQ 11: What unit will be used to measure the volume of a grain of rice?

Choose 1 answer:

- \square Cubic millimeters
- ☐ Cubic centimeters
- ☐ Cubic meters

MCQ 12: What unit will be used to measure the volume of a bottle of milk?

Choose 1 answer:

- ☐ Cubic millimeters
- \square Cubic centimeters
- ☐ Cubic meters

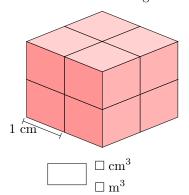
MCQ 13: What unit will be used to measure the volume of a swimming pool?

Choose 1 answer:

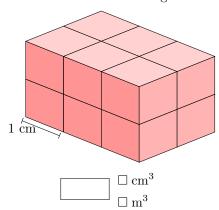
- ☐ Cubic millimeters
- ☐ Cubic centimeters
- ☐ Cubic meters

B.2 FINDING VOLUME OF A RECTANGULAR CUBOID

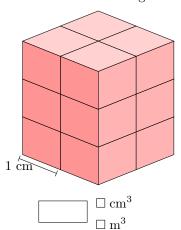
Ex 14: What is the volume of the red figure?



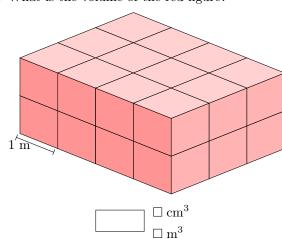
Ex 15: What is the volume of the red figure?



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



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



C CONVERSION OF VOLUME UNITS

C.1 CONVERTING VOLUME UNITS

Ex 18: Convert:

 $3 \,\mathrm{cm}^3 =$ mm^3 .

Ex 19: Convert:

 $12\,000\,\mathrm{mm}^3 =$ cm³.

Ex 20: Convert:

 $4 \,\mathrm{m}^3 = \boxed{\mathrm{cm}^3}$

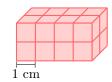
Ex 21: Convert:

 $15\,000\,000\,\mathrm{cm}^3 = \boxed{}$ m^3

D VOLUME OF A RECTANGULAR CUBOID

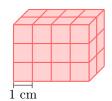
D.1 FINDING VOLUMES OF A RECTANGULAR CUBOIDS

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



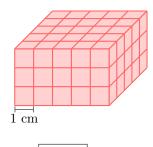
cm³

Ex 23: What is the volume of the red figure?



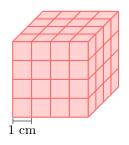
cm³

Ex 24: What is the volume of the red figure?



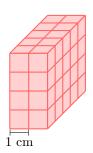
 $\mathrm{cm}^{\mathbf{3}}$

Ex 25: What is the volume of the red figure?



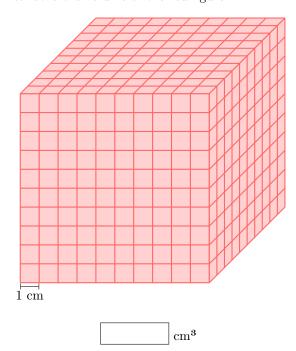
cm³

Ex 26: What is the volume of the red figure?



 cm^3

Ex 27: What is the volume of the red figure?



D.2 SOLVING PROBLEMS

Ex 28: 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?

m

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

dollars

Ex 29: A container has a volume of $20 \mathrm{m}^3$. A box is $2 \mathrm{m}$ ong, $1 \mathrm{m}$ wide, and $0.5 \mathrm{m}$ high. What is the volume of the box?	MCQ 35: What unit best measures the capacity of a soup bowl? Choose 1 answer: $\square \ 40 \ \mathrm{cL}$
$ ightharpoons m^3$	\square 40 mL
How many boxes can fit inside the container?	□ 40 L
boxes	MCQ 36: What unit best measures the capacity of a car's fuel tank? Choose 1 answer:
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?	
dollars	$1.5\mathrm{L} = $ cL.
E CAPACITY	Ex 40: Convert: $20 \mathrm{cL} = \mathrm{L}.$
E.1 CHOOSING UNITS FOR CAPACITY	Ex 41: Convert:
MCQ 32: What unit best measures the capacity of a bathtub? Choose 1 answer:	250 cL = L.
□ 220 mL	Ex 42: Convert: $2L = \boxed{\text{mL}}.$
\square 2 200 mL	Ex 43: Convert:
□ 220 L	$30\mathrm{mL} = $ cL.
MCQ 33: What unit best measures the capacity of a dosage of medicine? Choose 1 answer:	E.3 CONVERTING BETWEEN METRIC VOLUME AND CAPACITY UNITS
□ 5 mL	Ex 44: Convert:
□ 0.5 L	$5 \mathrm{m}^3 = \boxed{\hspace{1cm}} \mathrm{L}.$
□ 5 L	Ex 45: Convert:
MCQ 34: What unit best measures the capacity of a wine glass? Choose 1 answer:	$500 L = $ m^3 . Ex 46: Convert:
□ 150 L	$3.4\mathrm{m}^3 = $ L.
□ 15 cL	Ex 47: Convert:
□ 1.5 L	$2\mathrm{L} = igsqcup \mathrm{m}^3.$

4

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