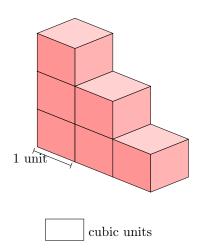
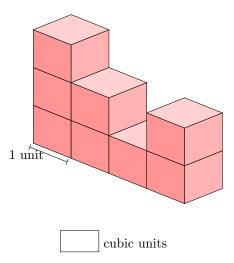
A DEFINITION

A.1 FINDING VOLUME OF A SHAPE

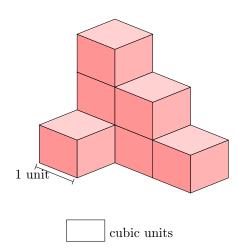
Ex 1: What is the volume of the red figure?



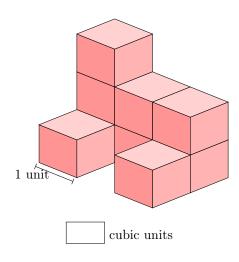
Ex 2: What is the volume of the red figure?



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

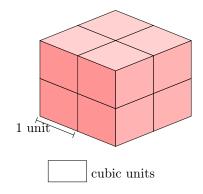


Ex 4: What is the volume of the red figure?

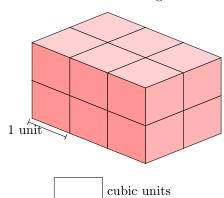


A.2 FINDING VOLUME OF A RECTANGULAR CUBOID

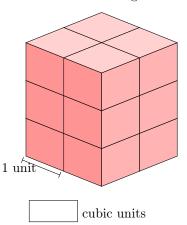
Ex 5: What is the volume of the red figure?



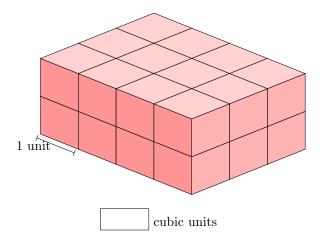
Ex 6: What is the volume of the red figure?



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 ·	•11	
Ш	Cubic	milli	imeters

- □ 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
- \square 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

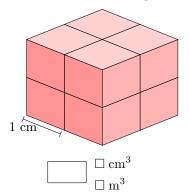
MCQ 13: What unit will be used to measure the volume of a swimming pool?

Choose 1 answer:

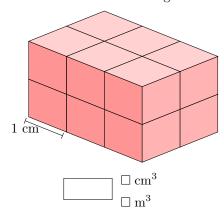
- ☐ Cubic millimeters
- ☐ Cubic centimeters
- ☐ Cubic meters

B.2 FINDING VOLUME OF A RECTANGULAR CUBOID

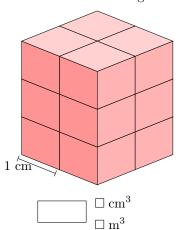
Ex 14: What is the volume of the red figure?



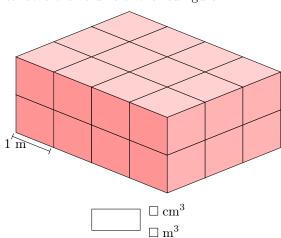
Ex 15: What is the volume of the red figure?



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:

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

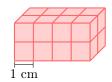
Ex 21: Convert:

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

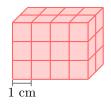
D VOLUME OF A RECTANGULAR CUBOID

D.1 FINDING VOLUMES OF A RECTANGULAR **CUBOIDS**

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

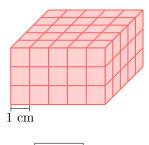


Ex 23: What is the volume of the red figure?



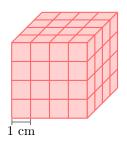


Ex 24: What is the volume of the red figure?



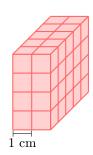


Ex 25: What is the volume of the red figure?



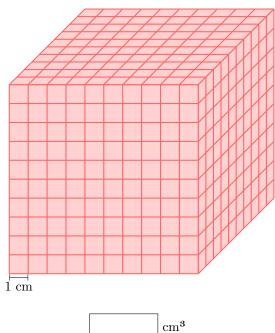


Ex 26: What is the volume of the red figure?





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



cm

D.2 SOLVING PROBLEMS

A rectangular swimming pool is 8 m long, 5 m wide, and $2\,\mathrm{m}$ deep. The water costs 10 dollars per cubic meter. What is the volume of the swimming pool?



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.	MCQ 35: What unit best measures the capacity of a soup bowl? Choose 1 answer:
What is the volume of the box?	\square 40 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 fue tank? Choose 1 answer:
	□ 60 mL
Ex 30: A storage room has a volume of $150 \mathrm{m}^3$. A water tank is $5 \mathrm{m}$ long, $2 \mathrm{m}$ wide, and $3 \mathrm{m}$ high.	□ 60 L
What is the volume of the water tank?	□ 600 L
$ ightharpoonspin m^3$	
How many water tanks can fit inside the storage room?	MCQ 37: What unit best measures the capacity of a pitcher Choose 1 answer:
Now many water tanks can it histor the storage room.	□ 2.5 mL
water tanks	□ 2.5 L
	□ 25 L
Ex 31: A rectangular fish tank is 2 m long, 1 m wide, and l m deep. The water costs 15 dollars per cubic meter.	E.2 CONVERTING CAPACITY UNITS
What is the volume of the fish tank?	Ex 38: Convert:
$ ule{m^3}$	$3L = \boxed{}$ cL.
What is the cost to fill the fish tank with water?	Ex 39: Convert:
dollars	
	$1.5\mathrm{L} = igsqcut_{\mathrm{cL}}$.
E CAPACITY	Ex 40: Convert:
	$20 \mathrm{cL} = $ L.
E.1 CHOOSING UNITS FOR CAPACITY	Ex 41: Convert:
MCQ 32: What unit best measures the capacity of a bathtub? Choose 1 answer:	$250 \mathrm{cL} = \boxed{ \qquad } \mathrm{L}.$ Ex 42: Convert:
□ 220 mL	
□ 2 200 mL	
□ 220 L	Ex 43: Convert:
_ 	$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	$5\mathrm{m}^3=$ L.
□ 5 L	Ex 45: Convert:
MCQ 34: What unit best measures the capacity of a wine	$500 \mathrm{L} = $ m^3 .
glass? Choose 1 answer:	Ex 46: Convert:
□ 150 L	
_ 100 1	$3.4\mathrm{m}^3 = $ L.
□ 15 aI	$3.4 \mathrm{m}^3 = $ L. Ex 47: Convert:
□ 15 cL	
□ 15 cL □ 1.5 L	Ex 47: Convert:

4

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