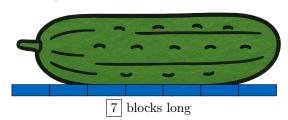
LENGTH

A DEFINITION

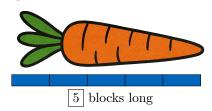
A.1 MEASURING LENGTHS WITH BLOCKS

Ex 1: How long?



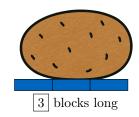
Answer: The cucumber measures 7 blocks long.

Ex 2: How long?



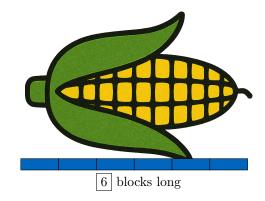
Answer: The carrot measures 5 blocks long.

Ex 3: How long?



Answer: The potato measures 3 blocks long.

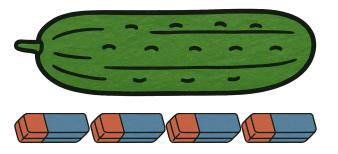
Ex 4: How long?



Answer: The corn measures 6 blocks long.

A.2 MEASURING LENGTHS WITH ERASERS

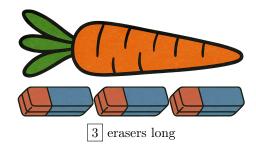
Ex 5: How long?



4 erasers long

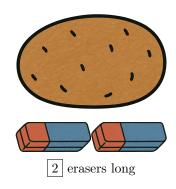
Answer: The cucumber measures 4 erasers long.

Ex 6: How long?



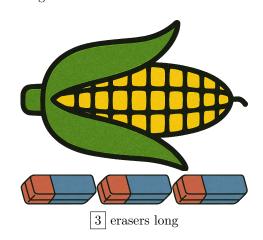
Answer: The carrot measures 3 erasers long.

Ex 7: How long?



Answer: The potato measures 2 erasers long.

Ex 8: How long?



Answer: The corn measures 3 erasers long.

B LENGTH UNITS

B.1 CHOOSING LENGTH UNITS

 \mathbf{MCQ} 9: Which unit will be used to measure how long a pencil is?

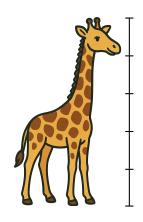
Choose 1 answer:

- ☐ Millimeters
- □ Centimeters
- ☐ Meters

□ Kilometers
Answer: Centimeters will be used to measure how long a pencil is.
MCQ 10: Which unit will be used to measure the distance between two cities? Choose 1 answer:
\square Millimeters
\Box Centimeters
\square Meters
⊠ Kilometers
Answer: Kilometers will be used to measure the distance between two cities.
MCQ 11: Which unit will be used to measure how tall a tree is?
Choose 1 answer:
☐ Millimeters
□ Centimeters
⊠ Meters
☐ Kilometers
Answer: Meters will be used to measure how tall a tree is.
MCQ 12: Which unit will be used to measure the length of an ant? Choose 1 answer:
⊠ Millimeters
\Box Centimeters
\square Meters
□ Kilometers
Answer: Millimeters will be used to measure the length of an ant.
MCQ 13: Which unit will be used to measure how long a book is?
Choose 1 answer:
☐ Millimeters
⊠ Centimeters

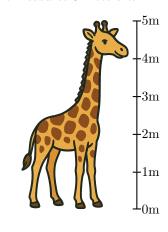
B.2 MEASURING

Ex 14:

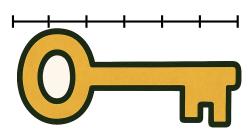


The giraffe measures $\boxed{5}$ **meters** tall.

Answer: The giraffe measures 5 meters tall.

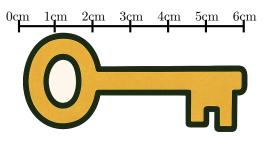


Ex 15:

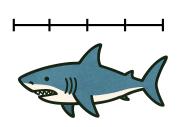


The key measures 6 centimeters long.

Answer: The key measures 6 centimeters long.



Ex 16:



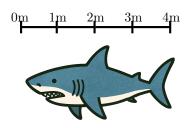
Answer: Centimeters will be used to measure how long a book is.

 \square Meters

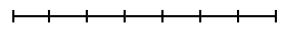
☐ Kilometers

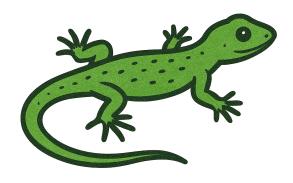
The shark measures 4 meters long.

Answer: The shark measures 4 meters long.



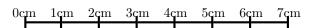
Ex 17:

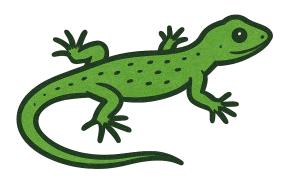




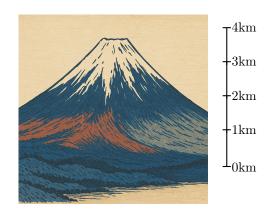
The lizard measures 7 centimeters long.

Answer: The lizard measures 7 centimeters long.



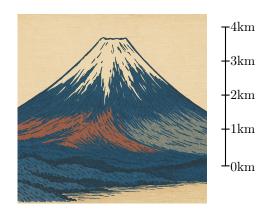


Ex 18:

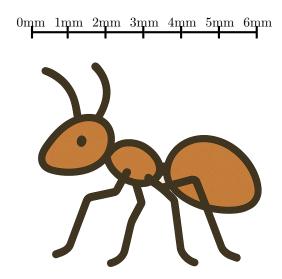


Mount Fuji measures 4 kilometers tall.

Answer: Mount Fuji measures 4 kilometers tall.

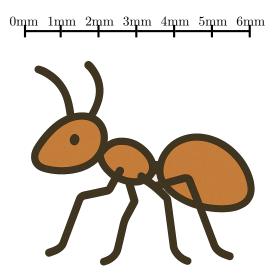


Ex 19:



The ant measures 6 millimeters long.

Answer: The ant measures 6 millimeters long.



C CONVERSION OF LENGTH UNITS

C.1 CONVERTING UNITS OF LENGTH

 \mathbf{Ex} **20:** Convert:

 $2 \, \text{km} = 2000 \, \text{m}.$

Answer:



• Multiplication Method:

$$2 \,\mathrm{km} = 2 \times 1\,000 \,\mathrm{m}$$

= $2\,000 \,\mathrm{m}$

• Conversion Table Method:

km			m	cm	mm
2	0	0	0		

So,

$$2 \,\mathrm{km} = 2\,000 \mathrm{m}$$

Ex 21: Convert:

$$4 \,\mathrm{m} = \boxed{400} \,\mathrm{cm}.$$

Answer:

• Multiplication Method:

$$4 \,\mathrm{m} = 4 \times 100 \,\mathrm{cm}$$
$$= 400 \,\mathrm{cm}$$

• Conversion Table Method:

km		m		cm	mm
		4	0	0	

So,

$$4 \,\mathrm{m} = 400 \,\mathrm{cm}$$

Ex 22: Convert:

$$300 \,\mathrm{cm} = \boxed{3} \,\mathrm{m}.$$

Answer:

• Division Method:

$$300 \,\mathrm{cm} = 300 \div 100 \,\mathrm{m}$$

= $3 \,\mathrm{m}$

• Conversion Table Method:

km		m		cm	mm
		3	0	0	

So,

$$300 \, \text{cm} = 3 \, \text{m}$$

Ex 23: Convert:

$$4000 \,\mathrm{m} = \boxed{4} \,\mathrm{km}.$$

Answer:

• Division Method:

$$4000 \,\mathrm{m} = 4000 \div 1000 \,\mathrm{km}$$

= $4 \,\mathrm{km}$

• Conversion Table Method:

km			m	cm	mm
4	0	0	0		

So,

$$4000 \,\mathrm{m} = 4 \,\mathrm{km}$$

Ex 24: Convert:

$$23 \, \text{cm} = \boxed{230} \, \text{mm}.$$

Answer:

• Multiplication Method:

$$23 \,\mathrm{cm} = 23 \times 10 \,\mathrm{mm}$$
$$= 230 \,\mathrm{mm}$$

• Conversion Table Method:

km		m		cm	mm
			2	3	0

So,

$$23 \,\mathrm{cm} = 230 \,\mathrm{mm}$$

Ex 25: Convert:

$$6\,000\,\text{mm} = \boxed{6}\,\text{m}.$$

Answer:

• Division Method:

$$6\,000\,\mathrm{mm} = 6\,000 \div 1\,000\,\mathrm{m}$$

= $6\,\mathrm{m}$

• Conversion Table Method:

km		m		cm	mm
		6	0	0	0

So,

$$6000 \, \text{mm} = 6 \, \text{m}$$

C.2 SOLVING PROBLEMS WITH UNIT CONVERSIONS

MCQ 26: Hugo and Louis go walking. Louis walks 5 000 meters, and Hugo walks 4 kilometers. Who did the longest walk?

 \boxtimes Louis

☐ Hugo

Answer: First, we need to compare their distances in the same unit. Let's convert Hugo's distance to meters.

Hugo walks 4 km. Using the conversion table:

km			m	cm	$_{ m mm}$
4	0	0	0		

So, 4 km = 4000 m.

Now, compare:

• Louis: 5 000 m

• Hugo: 4000 m

Since 5 000 m is more than 4 000 m, Louis did the longest walk.

MCQ 27: A giraffe is 5 meters tall, and a horse is 200 centimeters tall. Which animal is taller?

□ Giraffe

☐ Horse

Answer: First, we need to compare their heights in the same unit.

Let's convert the horse's height to meters.

The horse is 200 cm tall. Using the conversion table:

	km		m		$^{ m cm}$	mm
ſ			2	0	0	

So, 200 cm = 2 m.

Now, compare:

• Giraffe: 5 m

• Horse: 2 m

Since 5 m is more than 2 m, the giraffe is taller.

MCQ 28: A snake is 3 meters long, and a crocodile is 400 centimeters long. Which animal is longer?

□ Snake

□ Crocodile

Answer: First, we need to compare their lengths in the same unit.

Let's convert the crocodile's length to meters.

The crocodile is 400 cm long. Using the conversion table:

km		m		$^{\mathrm{cm}}$	mm
		4	0	0	

So, 400 cm = 4 m.

Now, compare:

• Snake: 3 m

• Crocodile: 4 m

Since 4 m is more than 3 m, the crocodile is longer.

MCQ 29: Emma walks 2 km to school, and Liam walks 3 000 meters to school. Who walks farther?

□ Emma

 \boxtimes Liam

Answer: First, we need to compare their distances in the same unit. Let's convert Emma's distance to meters. Emma walks 2 km. Using the conversion table:

km			m	$^{\mathrm{cm}}$	mm
2	0	0	0		

So, 2 km = 2000 m.

Now, compare:

• Emma: 2000 m

• Liam: 3000 m

Since 3 000 m is more than 2 000 m, Liam walks farther.