

Name:			
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Comparing Common Units of Distance

UOD 1

1	Put these common traditional units of distance in order from shortest to longest. yard inch mile foot
	shortest — longest
2	Put these common metric units of distance in order from shortest to longest. kilometer centimeter millimeter meter
	shortest — longest
3	Which metric unit is closest in length to a yard?
4	Is a meter longer than a yard?
5	Which metric unit is closest in length to a mile?
6	Is a kilometer longer than a mile?
7	Approximately how many kilometers are in 10 miles?
8	Which is longer, an inch or a centimeter?
9	Approximately how many centimeters are in an inch?
10	How many inches are in a foot?
11	How many feet are in a yard?



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Choosing the 'Best' Metric Unit

UOD 2

Instructions: For each problem below, decide which common metric unit you think would be best for measuring the object listed. You can write the whole word or just the abbreviation of that unit.

millimeters: mm centimeters: cm meters:	m kilometers: km
1 The length of a pencil	<u>cm</u>
The diameter of a water tower	
The length of a highway	
The width of a fruit fly	
The perimeter of a swimming pool	
The radius of a bicycle tire	
7 The distance between two cities	
The thickness of a pancake	
The depth of a lake	
10 The length of a bee's wing	
11 The height of a building	
12 The diameter of a cake	



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Choosing the 'Best' Traditional Unit

UOD 3

Instructions: For each problem below, decide which common traditional unit you think would be best for measuring the object listed. You can write the whole word or just the abbreviation of that unit.

in	ches: in	feet: ft	yards: yd	miles:	mi
1	The length of	a hot dog		in	
2	The depth of	a swimming	pool		
3	The diameter	of a basketb	oall		
4	The length of	a basketball	court		
5	The distance	across an oc	ean		
6	The width of	a bedroom			
7	The width of	an envelope			
8	The length of	playground			
9	The height of	a ladder			
10	The height of	California			
11	The diameter	of a pumpk	in		
12	The length of	a boat			



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Simple Metric Distance Conversions

UOD 4

Instructions: To answer the following questions, remember these simple metric relationships you learned in the video lesson.

1 centimeter = 10 millimeters

Hint: If you are converting from a bigger unit to a smaller one (i.e. km to m) you will need to multiply, but if you are converting from a smaller unit to a bigger one (i.e. cm to m) you will need to divide.

How many meters are equivalent to 2 kilometer?

since: 1 km = 1.000 m

then: 2 km = (2,000 m)

x2 x2

How many millimeters are equivalent to 8 centimeters?

How many centimeters are equivalent to 50 millimeters?

> since: 1 cm = 10 mmwe need to divide our 50 mm into groups of 10

 $50 \text{ mm} \div 10 = (5 \text{ cm})$

How many kilometers are equivalent to 3,000 meters?

How many centimeters are equivalent to 12 meters?

How many meters are equivalent to 400 centimeters?

How many meters are equivalent to 7 kilometer?

How many centimeters are equivalent to 60 millimeters?

How many centimeters are equivalent to 2.5 meters?

How many kilometers are equivalent to 1,500 meters?



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Simple Traditional Distance Conversions

UOD 5

Instructions: To answer the following questions, remember these simple traditional distance relationships you learned in the video lesson.

Hint: If you are converting from a bigger unit to a smaller one (i.e. ft to in) you will need to multiply, but if you are converting from a smaller unit to a bigger one (i.e. ft to yd) you will need to divide.

How many inches are equivalent to 3 feet?

then:
$$3 \text{ ft} = 36 \text{ in}$$

x3 x3

- then: 3 ft = (36 in)
- How many feet are equivalent to 3 yards?

How many yards are equivalent to 12 feet?

> since: 1 yd = 3 ftwe need to divide our 12 ft by 3 to see how many yards that is

12 ft ÷ 3 =
$$4$$
 yd

How many feet are equivalent to 24 inches?

- How many yards are equivalent to 2 miles?
- How many yards are equivalent to 30 feet?

- How many inches are equivalent to 4 feet?
- How many feet are equivalent to 60 inches?

- How many inches are equivalent to 1.5 feet?
- How many feet are equivalent to 6 inches?



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Estimating Distance Conversions

UOD 6

Instructions: To answer the following questions, remember these <u>estimated</u> conversions between metric and traditional units.

10 miles ≈ 16 kilometers

1 foot ≈ 30 centimeters

1 inch ≈ 2.5 centimeters

A pool is 4 feet deep. Estimate how many centimeters deep it is.

since: $1 \text{ ft} \approx 30 \text{ cm}$

x4 x4

then: 4 ft ≈ (120 cm)

If you live 100 miles from the nearest big city, approximatly how many kilometers is that?

- If you have to travel 5 miles to school, about how many kilometers is that?
- A tray is about 60 centimeters wide. What is its approximate width in feet?

- If a drinking glass is 8 inches tall, what is its approximate height in centimeters?
- If your friend is 5 feet tall, estimate their height in centimeters?

- If the college you want to go to is 30 miles from your home, about how far is that in kilometers?
- If a candle is 3 inches tall, about how many centimeters is that?

- g If your dog is 2.5 feet long, about how many centimeters long is it?
- If your friend's hamster is 5 inches tall, about how many centimeters is that?