



4th
Basic

5th
Advanced

Helping With Math

USA
GRADES

Conversion of Unlike Units (Measures of Length)

Suitable for students
aged 8-10



This pack is suitable for learners aged 8-10 years old or 4th to 5th graders (USA). The content covers fact files and relevant basic and advanced activities involving conversion of unlike units (measures of length).



The standard height of an ordinary washing machine is 85 centimeters. This measurement can be converted into different units of length.

$$85 \text{ cm} = 33 \text{ in}$$

- $85 \div 2.54$
- 85×0.39

$$85 \text{ cm} = 0.85 \text{ m}$$

- $85 \div 100$
- 85×0.01



The normal length of a refrigerator is 65 inches. When converted to feet and yard, the answer will be:

$$> 65 \text{ in} = 1.81 \text{ yd}$$

$$> 65 \text{ in} = 5.42 \text{ ft}$$



MEASURES OF LENGTH CONVERSION TABLE

millimeter	mm	1 mm = 0.1 cm, 0.001 m, 0.0001 km, 0.04 in, 0.003 ft, 0.001 yd
centimeter	cm	1 cm = 10 mm, 0.01 m, 0.00001 km, 0.39 in, 0.03 ft, 0.01 yd
meter	m	1 m = 1,000 mm, 100 cm, 0.001 km, 39.37 in, 3.28 ft, 1.09 yd
kilometer	km	1 km = <u> </u> mm, 100,000 cm, 1,000 m, 39,370 in, 3,280.84 ft, 1,093.61 yd
inch	in	1 in = 25.4 mm, 2.54 cm, 0.03 m, 0.00003 km, 0.08 ft, 0.028 yd
feet	ft	1 ft = 305 mm, 30.48 cm, 0.30 m, 0.0003 km, 12 in, 0.33 yd
yard	yd	1 yd = 914 mm, 91.44 cm, 0.91 m, 0.0009 km, 36 in, 3 ft



EXERCISES

25 yd	_____ in
6 cm	_____ km
18 ft	_____ m
21 in	_____ cm
64 mm	_____ ft

An oven's standard size in length is 60 centimeters. Convert its size to inch, foot, and millimeters.

Solution:



TABLE OF ACTIVITIES

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SAFE BOX

G4
Basic

Enter the right password or code to open your safe box. Read and analyze the following statements. Write TRUE if the statement is correct. Otherwise, write FALSE and write the correct answer below the given.

1) When four hundred sixty-five millimeters is converted to feet, it will result to one and fifty-three.

Correct answer (if False):

2) Three thousand nine hundred eighty-four millimeters is equal to twelve and one feet.

Correct answer (if False):

3) Eighty-two millimeters, when converted to feet, will result to sixteen hundredths.

Correct answer (if False):



MY PERSONAL GADGETS

G4
Basic

Enjoy these personal gadgets while solving for the measurement equivalent of the following units.

1) What value of cm will result to
1 mm?

- a. 0.001 c. 0.1
b. 1 d. 0.001

Explanation:

Explanation:

2) What value of yd will result to
1 ft?

- a. 0.3 c. 0.03
b. 0.33 d. 3.30

3) What value of in will result to
1 km?

- a. 39,370 c. 39,703
b. 39,307 d. 39,730

Explanation:



IRON HEAT-UP

G4
Basic

Make sure to not burn any cloth/dress by solving the following units. Show your solution on the space provided.

1) 3 yd = _____ in

6) 38 in = _____ yd

2) 48 yd = _____ in

7) 293 in = _____ yd

3) 182 yd = _____ in

8) 329 in = _____ yd

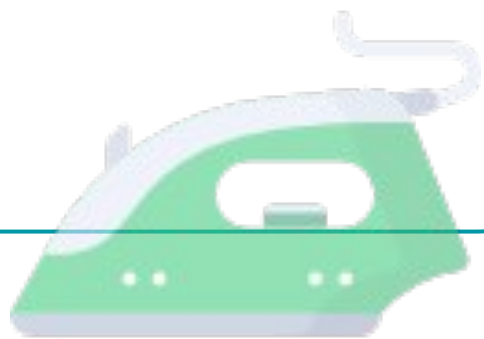
4) 69 yd = _____ in

9) 100 in = _____ yd

5) 10 yd = _____ in

10) 55 in = _____ yd

Solution:



SOUND ON

G4
Basic

Turn the music loud as you convert the following unit of measurements.

1. $238 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

2. $540 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

3. $23 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

4. $845 \text{ m} = \underline{\hspace{2cm}} \text{ cm}$

5. $159 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$

6. $95 \text{ cm} = \underline{\hspace{2cm}} \text{ m}$



Solution:



KITCHEN EQUIPMENT

G4
Basic

Grab these wonderful kitchen equipments by calculating the equivalent of the following measurements.

1) 58 km =

_____ in

Solution:



2) 64 mm =

_____ ft

Solution:



3) 93 cm =

_____ yd

Solution:



4) 21 yd =

_____ m

Solution:



TELEPHONE LINE

G5
Advanced

Draw a line segment for each first measure then convert it to what is asked in each number.

1. 120 mm

=

_____ km

2. 35 cm

=

_____ in

3. 12 in

=

_____ ft

4. 20 cm

=

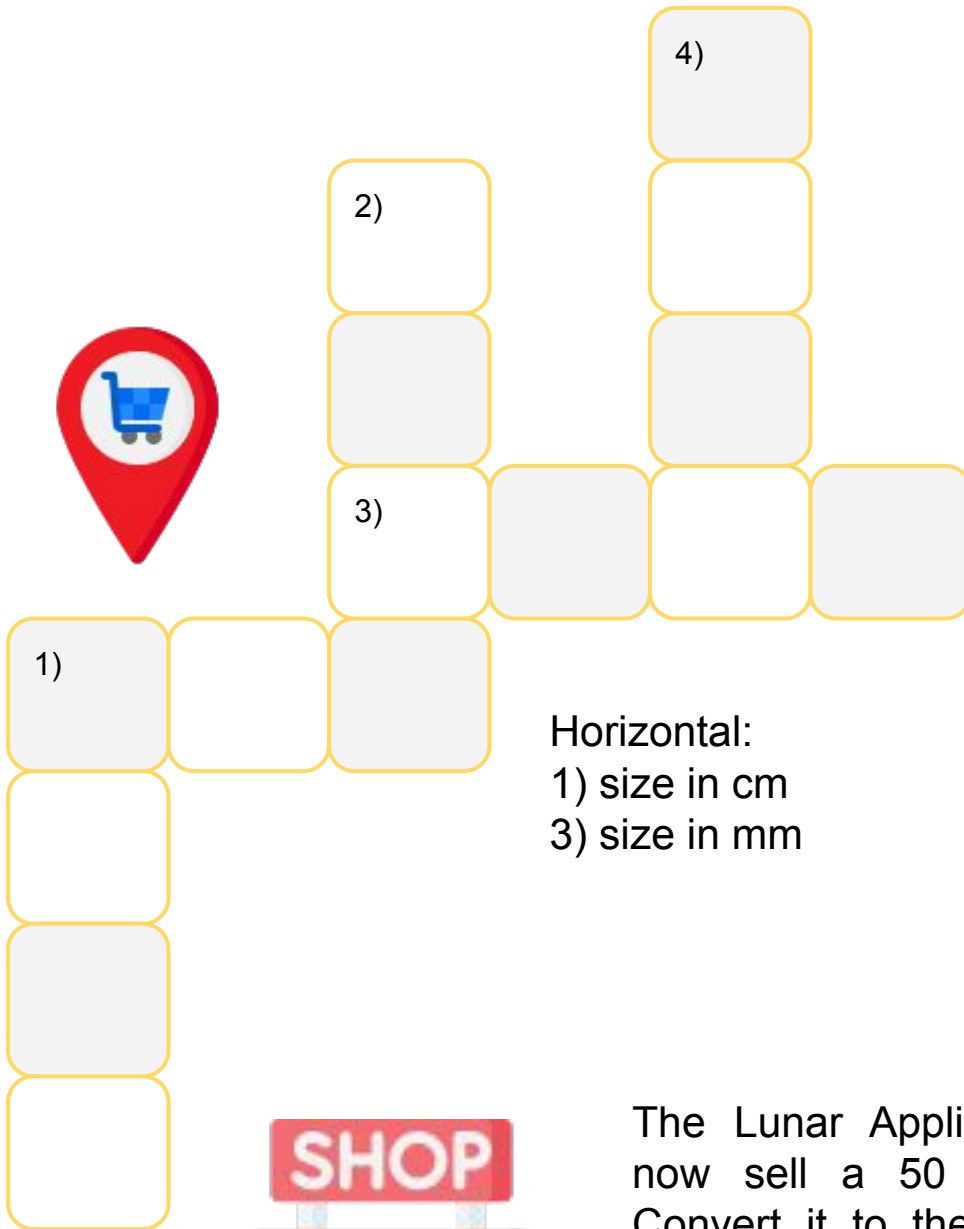
_____ yd



NEW APPLIANCE ALERT!

G5
Advanced

Win the latest living room appliance by completing this crossword puzzle! Hurry! Others might get it first!



Horizontal:
1) size in cm
3) size in mm

Vertical:
1) size in yd
2) size in ft
4) size in m



The Lunar Appliance Store will now sell a 50 inch smart tv. Convert it to the following units mentioned above.







APPLIANCES IN DAILY LIVING

G5
Advanced

These are common things that you can see at home. Get their measurement information and convert it to your chosen unit.

UNLIKE UNITS: MEASURES OF LENGTH

ITEM	MEASUREMENT BASED ON INFO PROVIDED	UNLIKE UNITS MEASUREMENT (choose 1)
		
		
		
		



OWN HOME INSTRUMENTS

G5
Advanced

Look for 5 appliances in your home. List them below and get their measurement in centimeters or inches. Afterwards, convert them into feet or yard.

HOME APPLIANCES	CENTIMETERS OR INCHES	FEET OR YARD



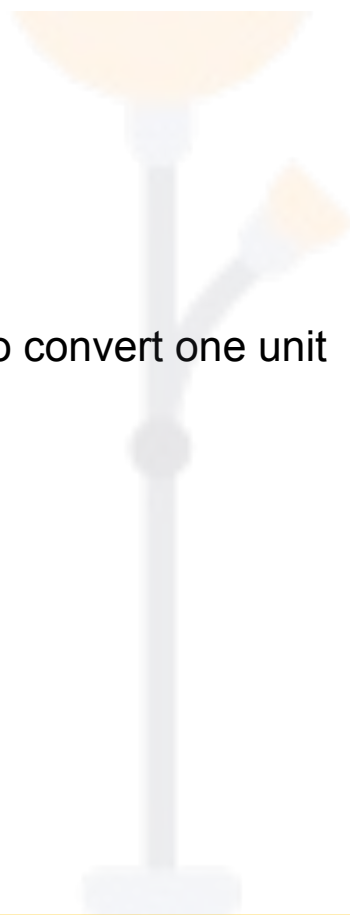
THE BRIGHT LIGHT

G5
Advanced

Here's a bright light to reflect on your learnings for today. Answer the following questions in not less than three sentences.

1. When do you most commonly use the concept of measurements of length?

2. What is/are the benefit/s of knowing how to convert one unit to another?



ANSWER GUIDE

Activity 1

1. True
2. False: 13.07
3. False: 0.27

Activity 2

1. C
2. B
3. A

Activity 3

- | | |
|-------------|-------------|
| 1. 108 in | 6. 1.06 yd |
| 2. 1,728 in | 7. 8.14 yd |
| 3. 6,552 in | 8. 9.14 yd |
| 4. 2,484 in | 9. 2.78 yd |
| 5. 360 in | 10. 1.53 yd |

Activity 4

- | | |
|--------------|-----------|
| 1. 23,800 cm | 6. 0.95 m |
| 2. 5.4 m | |
| 3. 2,300 cm | |
| 4. 84,500 cm | |
| 5. 1.59 m | |

Activity 5

1. 2.28 in
2. 0.21 ft
3. 1.02 yd
4. 19.20 m

Activity 6

1. 0.00012 km
2. 13.78 in
3. 1 ft
4. 0.22 yd

Activity 7

- | | |
|-------------|------------|
| Horizontal: | Vertical: |
| 1. 127 cm | 1. 1.39 yd |
| 3. 1,270 mm | 2. 4.17 ft |
| | 4. 1.27 m |

Activities 8-10

Answers may vary.



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