

Study Buddy Coupon

Assessment for: Measurement

Assessment Date: Monday, February 23rd

Directions: Complete this coupon after studying for your test. Turn this in by the day of the test and you be entered into a drawing for a prize.

Who was your Study Buddy? _____

How long did you study? _____

What resources did you use to study? (Circle as many as you want)

Workbook, Mrs. Robertson's Weebly, Internet, Youtube, Extra Worksheets, This packet,

How did you study? (Circle as many as you want)

Doing practice problems, Watching Youtube videos for help, Studied with a partner, Reviewed my workbook pages, Other: _____

Your Signature: _____

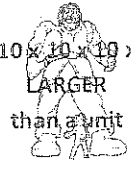


Your Study Buddy's Signature: _____

You will need to know how to:

- Know how to convert from larger units of measurement to smaller units (multiply = more units!)
- Apply the **perimeter** and **area formulas** for rectangles in real world and mathematical problems
- Be able to fill in a chart that has conversions (Quarts/Pints)
- Be able to solve word problems that use conversions (ie. I studied for 120 minutes, how many hours is that?)
- Know relative sizes of measurement units
 - mm, cm, m, km (length) mL, L, kL (volume) g, kg (mass)
 - in, ft, yd, mi (length) fl. Oz, cup, pints, quarts, Gallon (volume)
 - oz, lb, ton
 - seconds, minutes, hours, days, months, years

Students will need to be able to solve problems WITHOUT using a conversion table! Please practice!!! **See attached conversion table

Metric Conversion

King	Henry	Died	Unusually	Drinking	Chocolate	Milk
Kilo  10 x 10 x 10 x LARGER than a unit	Hecto 10 x 10 x LARGER than a unit	Deca 10 x LARGER than a unit	 * Unit * <i>Meter</i> (length) <i>Liter</i> (liquid volume) <i>Gram</i> (mass/weight) 1 unit	Deci 10 x SMALLER than a unit	Centi 10 x 10 x SMALLER than a unit	Milli 10 x 10 x 10 x SMALLER than a unit 
1 kilo = 1,000 units	1 hecto = 100 units	1 deca = 10 units	1 unit	10 deci = 1 unit	100 centi = 1 unit	1,000 milli = 1 unit
km = kilometer kL = kiloliter kg = kilogram	hm = hectometer hL = hectoliter hg = hectogram	dam = decameter daL = decaliter dag = decagram	m = meter L = liter g = gram	dm = decimeter dL = deciliter dg = decigram	cm = centimeter cL = centiliter cg = centigram	mm = millimeter mL = milliliter mg = milligram
Example: 5 kilo	50 hecto	500 deca	5,000 units	50,000 deci	500,000 centi	5,000,000 milli

← **DIVIDE** numbers by 10 if you are getting bigger (same as moving decimal point one space to the left)

MULTIPLY numbers by 10 if you are getting smaller (same as moving decimal point one space to the right) →

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Reference Tables (continued)

Table of Units of Time	
Time	
1 minute (min)	= 60 seconds (sec)
1 hour (hr)	= 60 minutes
1 day	= 24 hours
1 week (wk)	= 7 days
1 month	about 30 days
1 year (yr)	= 12 months (mo) or about 52 weeks
1 year	= 365 days
1 leap year	= 366 days
1 decade	= 10 years
1 century	= 100 years
1 millennium	= 1,000 years

Table of Formulas	
Perimeter	
Polygon	P = sum of the lengths of the sides
Rectangle	$P = 2(l + w)$ or $P = 2l + 2w$
Square	$P = 4s$
Area	
Rectangle	$A = lw$ or $A = bh$
Square	$A = s \cdot s$

READ CAREFULLY!

Fill in the circle for the correct answer.

Show your work.

- Marcus rode his mountain bike on a 3-kilometer dirt trail. He completed the trail 2 times. How many meters did Marcus ride his bike?
 - (A) 60 meters
 - (B) 600 meters
 - (C) 6,000 meters
 - (D) 60,000 meters

- Which describes the relationship between an hour and a second of time?
 - (F) 1 hour is 60 times as long as 1 second.
 - (G) 1 hour is 120 times as long as 1 second.
 - (H) 1 hour is 1,200 times as long as 1 second.
 - (K) 1 hour is 3,600 times as long as 1 second.

- Which table shows kilometers correctly converted to meters?

(A)

Kilometers	Meters
2	20
3	30
4	40

(C)

Kilometers	Meters
2	2,000
3	3,000
4	4,000

(B)

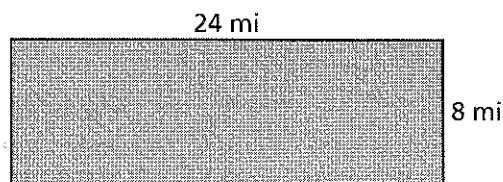
Kilometers	Meters
2	200
3	300
4	400

(D)

Kilometers	Meters
2	20,000
3	30,000
4	40,000

- What is the area of the rectangle?

- (F) 192 sq mi
- (G) 162 sq mi
- (H) 64 sq mi
- (K) 32 sq mi



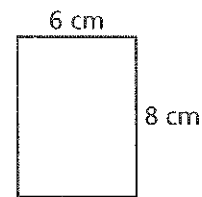
5. What is the perimeter of the rectangle?

(A) 48 cm

(B) 28 cm

(C) 22 cm

(D) 14 cm



Convert.

6. 66 ft

(F) 69 yd

(G) 63 yd

(H) 33 yd

(K) 22 yd

7. 52 m

(A) 520 cm

(B) 5,200 cm

(C) 52,000 cm

(D) 520,000 cm

8. 80 cL

(F) 800 mL

(G) 8,000 mL

(H) 80,000 mL

(K) 800,000 mL

9. 8 kg

(A) 80,000 g

(B) 8,000 g

(C) 800 g

(D) 80 g

10. 15 yd

(F) 3 ft

(G) 5 ft

(H) 45 ft

(K) 60 ft

11. 4 lb

(A) 64 oz

(B) 48 oz

(C) 32 oz

(D) 16 oz

12. 6 gal

(F) 12 qt

(G) 18 qt

(H) 24 qt

(K) 48 qt

13. 48 months

(A) 7 years

(C) 5 years

(B) 6 years

(D) 4 years

14. 7 hours

(F) 42 minutes

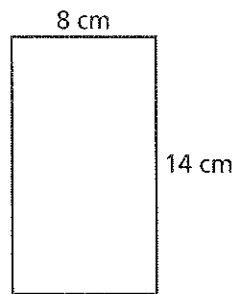
(H) 422 minutes

(G) 420 minutes

(K) 4,200 minutes

Find the perimeter and area of the rectangle.

15.



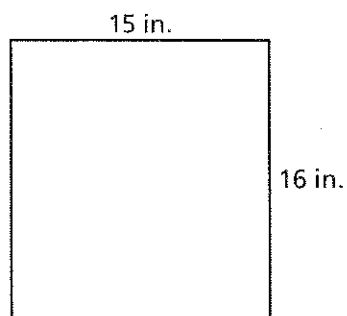
(A) Perimeter = 22 cm; Area = 112 sq cm

(B) Perimeter = 44 cm; Area = 112 sq cm

(C) Perimeter = 44 cm; Area = 44 sq cm

(D) Perimeter = 112 cm; Area = 44 sq cm

16.



(F) Perimeter = 62 in.; Area = 240 sq in.

(G) Perimeter = 62 in.; Area = 62 sq in.

(H) Perimeter = 31 in.; Area = 240 sq in.

(K) Perimeter = 31 in.; Area = 62 sq in.

