Conversion of units word problems with answers

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Island Math

These math problems are based on some of the things you read about in The Cay. Work with a partner or on your own to solve them. Do your work on a separate sheet of paper and show all work.

1. The island was about one mile long and half a mile wide. What is the perimeter of the island? (Hint: P = 2L + 2W) Answer: _____ miles	5. Timothy thought they might be on the island called Devil's Mouth; 40 or 50 miles of coral banks ran on either side. How many kilometers is that? (Hint: 1 mi. = 1.61 km) Answer: _____ km or _____ km
2. Timothy found a place to make their camp near a palm which was about 40 feet from the ocean. How many inches in that? (Hint: 12 in. = 1 ft.) Answer: _____ inches	6. When Timothy first spotted the island, he figured they were two miles away from it. How many feet is that? (Hint: 1 mi. = 5,280 ft.) Answer: _____ feet
3. Their hut was eight feet wide and six feet long. What is the perimeter of the hut? (Hint: P = 2L + 2W) Answer: _____ feet	7. Slowly, Phillip began to know the island. He believed that the beach was 40 yards wide in most places. How many feet is that? (Hint: 3 ft. = 1 yd.) Answer: _____ feet
4. The roof of the hut sloped back and was about six feet off the ground. About how many meters in that? (Hint: 1 ft. = .3 m) Answer: _____ m	8. Flying fish flopped right onto the raft. They could jump as high as 30 feet. How many yards is that? (Hint: 3 ft. = 1 yd.) Answer: _____ yds.

Extension: Using the information in the problems above, make up your own word problem.

Conversion Word Problems

Curley's fishing rod is 2 yards long. Cassandra's fishing rod is 7 feet long.
(1) Whose fishing rod is longer? ___
(2) How much longer? ___ feet

2 yards   1 ft

2 \

MEASUREMENT word problems

NAME: _____

Example #1: Elise walked 4 kilometers. How far did she walk in meters?	Example #2: Frank is 5 ft. 8 in. tall. How tall is Frank in inches?
Example #3: Larry brought 2 liters of water on a hike. Lily bought 1,300 milliliters of water on the trip. How much water, in milliliters, did they bring together?	Example #4: Jesse spends 2 hours each morning practicing the piano. After 5 days, how many minutes has Jesse spent practicing piano?
Example #5: Keith split 1.5 liters of water into 8 buckets. How many milliliters of water went into each bucket?	Example #6: Lindsay picked 5½ pounds of raspberries. Tyler picked 54 ounces of raspberries. How many more ounces did Lindsay pick than Tyler?

Milligram * Gram * Kilogram

Directions: Solve the problems in milligrams, grams and kilograms.

1000 mg = 1 gram * 1000 g = 1 kilogram

1. My recipe calls for 200 grams of flour, 70 grams of sugar, and 400 grams of water. How many kilograms of each ingredient do I need?

2. Barbara has 14 tiny paperclips that weigh 45 grams each. She has 15 large paperclips that weigh 23 grams each. How many grams total in paperclips does Barbara have?

3. Sheila has 5 bags of sugar. The total weight of all bags is 8 kilograms. What is the mass of each bag of sugar in grams?

4. Pops bought 4 watermelons. The first weighed 6.5 kg. The second weighed 8 kg. The last two weighed 9 kg each. How many grams total did all 4 watermelons weigh?

5. What is the total weight in milligrams for Pops' watermelons?

PROBLEM SOLVING - 7 LONGEST RIVERS

ANSWERS (Metric units)

Below is a selection of some of the longest rivers in the world.

RIVER	LENGTH (km)	LENGTH TO NEAREST 1000 km
Amazon	6400	6000
Mississippi	6275	6000
Nile	6650	7000
Ob	5410	5000
Yangtze	6300	6000
Yellow River	5464	5000
Yenisei	5539	6000

1) Fill in the length of each river to the nearest 100 km.

2) Write the rivers in length order, from smallest to largest below. You can write the first 3 letters of each river.

Ob Yellow River Yenisei Mississippi Yangtze Amazon Nile

3) How much longer is the Mississippi than the Ob? 865km

4) How much shorter is the Yellow River than the Nile? 1,186km

5) What is the total length of the 3 longest rivers? 19350km

6) What is the difference between the longest and shortest river? 1240km

7) Which two rivers are closest in length? Mississippi and the Yangtze

8) Tiger says "The two longest rivers put together are longer than the three shortest rivers put together." N + A = 13,050. O + YR + Ye = 16,413. He is incorrect.

9) Circle the correct answer.

The total length of all the rivers is about 20,000km 30,000km (40,000km)

Execute the questions given in the unit of measurement tab. The questions are based on the conversion of larger units into smaller units, on the conversion of smaller units into larger units and on word problems on the metric measurement of length, mass and capacity. 1. A tape was 32,7 m long. It was cut into four pieces of 3,9 m, 14,2 m, 2,9 m and 1,08 m. Find the length of the remaining tape. 2. From the sum of 89,02 m and 10 337 cm, subtract the sum of 832 dm and 41,58 m. 3. Lisa walked two km in the morning and 5000 m in the evening. What is the distance travelled by Lisa in km 4. Convert 65 cm a dm, m, hm, and km 5. Express 29,5 m in dm, cm, mm, dam, hm, km. 6 Convert 1257 m to hm, dam and dm. Seven. Ryan's books weigh nine grams. What is the weight in mg? Eight. Jordan is seven feet tall and weighs 51 kg. It will carry high seven feet and weighs 42 000 g. Who is heavier and how much? 9. A cookie weighs six G's. Find the weight of a dozen of these cookies. The 10th. A box of chocolates weighs 471 g. Find the weight of half a dozen of these boxes in kg. All eleven. Subtotal 63.746 kg 87.503 kg. The 12th. Subtitles 95008l by 36 005 kl. The 13th. Express 76 l in Ml, cl and ml. 14. The capacity of a bucket is 27-l. It has 17-water. How much more water can it hold? The 15th. Sharon bought a can with a 70-litre capacity. He poured 15's of water, 17's of lime juice and 36's of sugar solution. What capacity of the pond had run out? The answers for the worksheet on the unit of measurement are given below to verify the exact answers to the above mentioned problems concerning metric measures. Answers: 1. 16,2 m 2. 6761 cm or 67,61 m 3. Seven miles four. 6.5 dm, 0.65 m, 0.0065 m, 0.00 065 km 5. 295 dm, 2950 cm, 29 500 mm, 2.95 dam, 0.295 hm, 0.0295 km 6. 12.57 hm, 125,7 dam, 12 570 dm 7. 900 000 mg 8. Jordan is heavier than 9 kg or 9000 g 9. 72 g 10. 2826 g or 2.826 kg 11.757 kg 12. 26 505 kl 13. 760 dl, 7600 cl, 76 000 ml 14. Ten to fifteen. 68.6th Grade Mathematical Grade Work sheet on measurement to home page you didn't find what you were looking for looking for Or you want to know more about Math Only. Use this Google search to find what you need. Share this page: Whach226; 128;s this? Our Grade 5 measurement sheets give students the practice of converting between different units of measurement for length, mass and volume and converting units of measurement between standard and metric measurement systems. Consult all our measuring sheets, from "larger than smaller" to 160; the measurement of length, weight, capacity and temperature in usual and metric units. Word Problems on Conversion of Units: Conversion of units is a multi-stage process involving multiplication or division by a numerical factor. In Mathematics, while solving numerical problems, you need to convert units. Conversion of units should therefore be necessary to solve the required calculations whenever necessary. For example, if we need to calculate the area of the rectangle, where the length is given in centimeters (\left (\rm{cm}\}}} right) and the width is given in meters \\\\\\rm\\\\\\\\\\ Therefore, to solve the problems of word in math, you need to learn the conversion of units. This article will discuss in more detail the conversion of units. Learn the Conversion of units here Definition of word problems on conversion of units Conversion of units is a multi-step process involving 160; multiplication or division by a numerical factor. Word problems on unit conversion consist of a few sentences that describe a real life scenario in which mathematical definitions and concepts of unit conversion from one unit to another are used to solve a problem a. Conversion of units may also require selecting the correct number of significant digits and rounding. In mathematics, we convert units Å from one unit to another unit a better understanding. The length of a table is measured in inches. But we cannot measure the length of a finger in miles. To measure different quantities, different measurement units are needed. The conversion of units should be necessary to solve the required calculations whenever necessary. For example, if we need to calculate the rectangle area, in which the length is expressed in centimeters (\{cm}\} right), and the width is expressed in meters (Left (\{}} Right) Then you need to convert any unit, be it length or width, to make them uniform. Conversion of metric units word problems in mathematics, we have metric systems as a unit of measurement of length And distance, weight and capacity. As we have said, to correctly solve the word problems, we must learn the conversion of units, and it is also necessary. The metric system has been introduced in France in the year (1790) . The metric unit of the measurement unit is based on the decimal system. The basic unit for the length is the meter, for kilogram weight and seconds for the time. The conversion of the unit is a more process Phases involving multiplication or division for a numerical factor. To convert any u Nit there is larger in one smaller, we must multiply for the conversion factor. Similarly, to convert any smaller units into a larger, we should divide it for the conversion factor. Word problems On the conversion of length units is an unidimensional scale quantity, which measures the line segment. The basic unit used to measure the length is a meter (\{{M}}). Depending on the sample or object used for the measurement, we have different types of units such as ({\rm,}}, {rm {km}}, {rm (inches,}} {rm {ft}}), etc. For example, the length of a garden is measured in yards, while the length of a table is measured in inches. But we cannot The length of a finger in miles. To measure different quantities, different measurement units are needed. The underlying chart provides the conversion of To convert one unit from a meter to a centimeter, we should multiply from (100) so that (1, {{m}}, = 100, {rm {cm} }) Example: Asit and Keerthi each ran on a treadmill exactly for (90) minutes. The Asit treadmill showed that he had run (18500 meters). The Keerthi treadmill showed that he had run (kilometers). Who ran further, and how much? The time taken from the {rm {cm }} Keerthi and Asits are the same, ie (90) minutes. Here, the distance covered by Asit and Keerthi has several measurement units. For uniformity in the calculation, we must convert the units from ({{{km}}}}) up ({m {m}} {RM {km}}). Convertize ({rm {km}}}\) Up ({m {m}},). Thus, the distance covered by ASIT on the treadmill } {rm {=}} {rm {20}}} {20}} {rm {1000}} {rm {mÅ e =}} {rm {20,}}} {rm {20,}}}) {rm {000}} {{m}} The difference in their distances is {{20,}}}}} {}}}} {000 }}, {Rm {m}}, {rm {Å ¢ â,¬ "}}} {rm {18500}}}} {rm {m}}} {m}}} { rm {= 1500}}} {rm {m}}} Then, Keerthi ran further as compared to ASIT from {{20,}}} {RM}}}} {RM {m}}, {} {â, "}}} {Å ¢ â,¬ "}} {{(18500)}} {rm {m}} . {rm {= 1500}}} {1500}} {1500}}} {rm {m}}} or {} {1.5}} {1.5}}} {rm {km}}). Word problems on the conversion of weight units are the Unidimensional vector quantities, which is used for measuring objects. Generally, I The object weight is measured in the kilogram basic unit ({{{kg}}}). We know that the weight of the person is measured in {{{(kg)}}} and the weight of the small pieces of gold is In grams. Therefore, it is important to convert weight units when solving word problems for uniformity in the calculation. The following figure shows the conversion of weights from one unit to another unit: Example: Nag is transporting (2.5, {rm {kg}}) of apples and (5, {rm {g}}) to bring the bag. Find the total that He's holding. The total weight \(= 2.5 \times 1000\,{\rm{g}}}\,{\rm{ +Å¯ 5g}}\,{\rm{ = }}\,{\rm{2505}}}\,{\rm{g}}}\) Problems with words on time conversion We know that seconds are the Basic unit to measure time. We need to convert time units from one unit to another to solve problems. The chart below gives the time conversion: Example: The time it takes to reach the store is \ (30) minutes and due to heavy traffic, the time it takes to reach the house is \ (1) hour. Find the total time spent? The total time taken \ (= 30\min {\rm{utes}}} + 1 \times 60\min {\rm{utes}}} = 90\min {\rm{utes}}} \) Problems with words when converting area units The area is the two-dimensional property. We have several units to measure the area. The following figure shows the conversion of area units: Example: The parking area is \(12{\rm{m}})^2\)\) and \ (50,{\rm{c}}{\rm{m}}}\)^{\rm{2}}}}}}\) Find the total area? The total area \ (= \,2\, \times \,{100^2}\, {\rm{c}}{\rm{m}}^2}\, +,\,500,{\rm{c}}{\rm{m}}}^2\\, =,\1 440 000\, + 500\, = \,{\,{\rm{c}}{\rm{m}}}^2\) Word problems in converting capacity units describes the volume of the object. Below are the different types of units used to measure capacity: Example: The capacity of the water bottle is \ (1\,{\rm{l}}}\) and the cap is \ (1\, {\rm{ml}}\) Find the total capacity of the bottle. The total capacity \(= 1 \times 1000\,{\rm{ml}}} + 1\,{\rm{ml }} = 1001\,{\rm{ml}}\) Solved Examples Å" Word Problems in Unit Conversion Q.1. The distance between the two locations of a city is \ (31,\,680\, feet\) Expresses the distance in miles.Ans: Given the distance between locations \ {\{\rm{ = 31,680}}\,{\rm{feet}}}\) we know that \ ({\rm{1feet}}} = \frac{1}{5280}}}}}}\){\rm {miles}}\) So total distance in miles \ (= \frac{31,680}{5280}} = 6\,{\rm{miles}}}\) Q.2. Mom took \ (30\) minutes cut the vegetables, and used \(1\) now to cook. Find out how many minutes you spent Completthe entire cooking process?Ans: Time needed to cut vegetables \\\14.500\,{\rm{g}}\) of sand in his sandbox, and he bought \(7500,{\rm{g}} Ans:The initial sand in the box is \\ (14.500\\\rm{g}\\\\\\\rm =\\\\\frac {7500}{1000}\\\\\\\\\\\rm{kg}\, \\\\\\\\\\rm{kg} The total sand in the box \\\\\\\\\\\\\\\\\\14.5\\\\\\.5\\\\\\\\\\\\\.5\\\\\\\\,22\,22\\\\,22\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\nottogether the two segments of line? (answer in cm) Answer: The length of the first segmentof line \\\50}\,{\rm {cm}}\) The total length of the segments of two lines \\ (= \\\\\\\\\\\\\\\\\\\\\\,30\\\\\\\\\rm {m}}}\\\\\\\\\\\\\\\\\\\\\\\rm {40},{\rm{c m}}\) Area of the box \\\\\\\\\\\rm {length}\\\, \times \\rm {width}\\\\\\rm In this article we discussed various methods of conversion of units from one unit to another. This article also deals with conversion of units and word problems on conversion of units. In this article we discussed various methods of conversion of units from one unit to another. We studied the word problems on conversion of units of length, weight, time and skill, along with solved examples that help us to easily solve numerical problems. Frequently Asked Questions Word Problems about Unit Conversion Q.1. How do I solve unit conversion problems?Ans: The following steps should be followed to do unit conversion problems.1. Read the data and the given units.2. Now, multiply or divide as required conversion with the conversion factor.3. Then, solve the problems using the appropriate formulas and operations. Q.2. How do I solve word metrics problems?Ans: Word metric problems need to be solved using unit conversion. Convert any larger unit into the smallest one, and we should multiply by the conversion factor. Similarly, to convert any smaller unit to a larger one, we should divide it by the conversion factor. Q.3. Why is unit conversion important? Answer: To solve many real life problems, unit conversion is very important because we cannot perform basic operations such as addition, subtraction, multiplication, division etc. if the two quantities are not in the same units. Q.4. What are the three basic metric units? Answer: The three basic metric units are metre for length, gram for weight and litre for capacity. Q.5. What is unit conversion? Ans: Unit conversion is a multi-step process involving multiplication or division by a numerical factor. { "@context": " ", "@type": "FAQPage", "mainEntity": [{ "@type": "Question", "name": "Q.1. How do you solve unit conversion problems?", "acceptedAnswer": {"@type": "Answer", "text": "Ans: The following steps are to be followed to do unit conversion problems. 1. Read data and units. 2. Now, multiply or divide the required conversion by conversion factor. 3. Then, solve the problems using the appropriate formulas and operations.Å" }, { Å"@typeÅ": Å"Q.2. How do I solve word metric problems?Å", Å"acceptedAnswerÅ": { Å"@typeÅ": Å"ReplyÅ", Å"textÅ": Å"Ans: The problems of word metrics words to be solved using the conversion of the.unit Convert any larger unit to the smaller unit, and we should multiply with the conversion factor. Similarly, to convert a smaller unit into a larger unit, we should divide it with the conversion factor. "}, {"@type ":" Question "," Name ":" Q.3. Why © conversion of the unit is important? ","Acceptedanswer": {"@type ":"Answer ","Text":" Ans: To solve many real life problems, conversion of the unit is very important because © we cannot perform basic operations such as adding "}}, {"@type ":"Query ",Name":"Q.4. What are the three basic metric units?",Accept Dancer": Name ":" Q.3. Why © conversion of the unit is important? ","Acceptedanswer": { "@type ":"Answer ","Text":" Ans: The three basic metric units are meters per length, gram per weight and litre per capacity "}, {"@type":"Question","Name":"Q.5. What is the conversion of the unit ","Accept Dancer": {" @type ":" Answer ","Text":" Ans: The conversion of units is a multi-step process involving multiplication or division by a numerical factor. "}}]} Discover the measurement Here we hope that you will find this article on the word problems on conversion of units ¬Useful. In case of questions, you can go back to the Comment section, and we will try to solve them.

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