

I'm not robot!

Find the answer for each problem. Show your set-up. Calculators may be used only if allowed by your teacher.

Units of Length

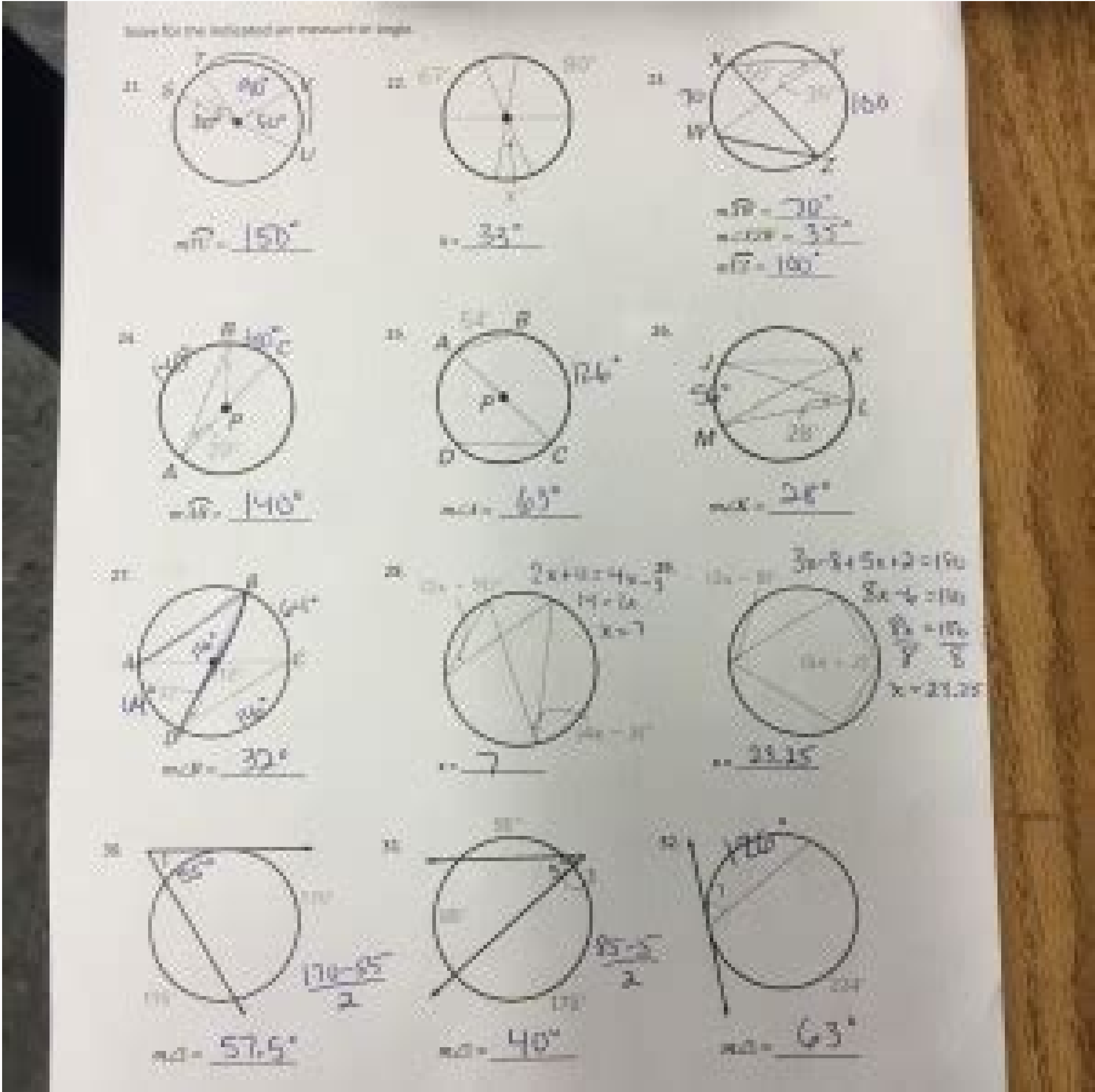
1. Find and describe a part of your hand or finger(s) that has a length of approximately one inch.
2. 2 feet = _____ inches
3. 216 inches = _____ feet
4. 12,320 yards = _____ feet = _____ miles
5. 360 inches = _____ feet = _____ yards

Units of Capacity

6. 1 gallon = _____ quarts = _____ pints = _____ cups = _____ fluid ounces
7. 16 pints = _____ gallons
8. 2 quarts = _____ cups
9. 2 cups = _____ fluid ounces
10. 32 tablespoons = _____ pints
11. 2 quarts = _____ pints
12. 12 ounces = _____ cups

Units of Weight

13. 1 ton = _____ pounds
14. 500 pounds = _____ tons
15. 1 pound = _____ ounces
16. 32 ounces = _____ pounds
17. 5 pounds 3 ounces = _____ ounces
18. 16 tons = _____ pounds



Name: _____ Date: _____

Measuring Units Worksheet

Convert.

1 a. 477 cm = _____ m

1 b. 88 cm = _____ m

2 a. 0.6 m = _____ cm

2 b. 2.2 km = _____ m

3 a. 48 cm = _____ m

3 b. 933 cm = _____ m

4 a. 18.4 km = _____ m

4 b. 1.5 m = _____ cm

5 a. 54 cm = _____ m

5 b. 201 m = _____ km

6 a. 34 cm = _____ m

6 b. 15,545 m = _____ km

7 a. 18.1 km = _____ m

7 b. 1,837 m = _____ km

8 a. 957 cm = _____ m

8 b. 7.7 m = _____ cm

9 a. 0.1 m = _____ cm

9 b. 340 cm = _____ m

10 a. 7.3 m = _____ cm

10 b. 11.6 m = _____ cm

Line method

Conversion factor

2.54 cm
1 in

12 in
1 ft

2 ft | 12 in | 2.54 cm
1 ft | 1 in

2 ft = __ cm

Math Conversions: Percentages & Discounts

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Finding a fractional part of a whole

1. Write the lesser number over the greater number. Reduce if necessary.

Example: 9 is what part of 18? Ans: 1/2

Finding discounts

1. Multiply the list price by the rate of discount. (The rate of discount being a decimal)
2. Subtract the amount of discount from the list price.

Example: The price of a shirt is \$20. It is 15% off. What is the new price? Ans: \$17

Finding the rate of discount

1. Subtract the sale price from the regular price to find the discount

Math Conversions: Percentages & Discounts

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Example: 28 is what percent of 40? Ans: 70%

Finding percent of increase or decrease

INCREASE

1. Subtract to find the number of increase.
2. Make a fraction with the amount of increase (Denominator) and the original number.
3. Reduce the fraction as necessary. Convert the fraction into a decimal.

DECREASE

1. Subtract to find the number of decrease.
2. Make a fraction with the amount of decrease (Numerator) and the original number.
3. Reduce the fraction as necessary. Convert the fraction into a decimal.

Example Increase: Sarah had 20 pencils, now she has 25 pencils. Ans: 25%

Example Decrease: Sarah had 20 pencils, now she has 12 pencils. Ans: 40%

Finding the percentage for circle graphs

1. Find the total of the items together.
2. Find what percent each part is of the total.
3. Add a decimal point, then three zeros while dividing.
4. Estimate (.214 would be 21%, .285 would be 29%, etc.)

RESOURCES BY STANDARD AI GEO AII PLUS or www.commoncorestatestandards.org RESOURCES BY TOPIC AI GEO AII PRECALCULUS CALCULUS QUICK TOPICS REGENTS EXAMS WORKSHEETS JMAP ON JUMBLED An online platform for the above Algebra I resources REGENTS BOOKS AI LESSON PLANS WORKSHEET GENERATORS EXTRAS REGENTS EXAM ARCHIVES 1866-now JMAP RESOURCE ARCHIVES AI/GEO/AII (2015-now) IA/GE/A2 (2007-17) Math A/B (1998-2010) REGENTS RESOURCES INTERDISCIPLINARY EXAMS NYC TEACHER RESOURCES All things Toddler Interview Help GMTS Newsletter - Heath & Wellbeing © Copyright 2021 Wakelet Limited.All rights reserved. Chapter 1: Algebra Review One application of rational expressions deals with converting units. Units of measure can be converted by multiplying several fractions together in a process known as dimensional analysis. The trick is to decide what fractions to multiply. If an expression is multiplied by 1, its value does not change. The number 1 can be written as a fraction in many different ways, so long as the numerator and denominator are identical in value. Note that the numerator and denominator need not be identical in appearance, but rather only identical in value. Below are several fractions, each equal to 1, where the numerator and the denominator are identical in value. This is why, when doing dimensional analysis, it is very important to use units in the setup of the problem, so as to ensure that the conversion factor is set up correctly. If 1 pound = 16 ounces, how many pounds are in 435 ounces? The same process can be used to convert problems with several units in them. Consider the following example. A student averaged 45 miles per hour on a trip. What was the student's speed in feet per second? Convert 8 ft3 to yd3. A room is 10 ft by 12 ft. How many square yards are in the room? The area of the room is 120 ft2 (area = length x width). Converting the area yields: The process of dimensional analysis can be used to convert other types of units as well. Once relationships that represent the same value have been identified, a conversion factor can be determined. A child is prescribed a dosage of 12 mg of a certain drug per day and is allowed to refill his prescription twice. If there are 60 tablets in a prescription, and each tablet has 4 mg, how many doses are in the 3 prescriptions (original + 2 refills)? Metric and Imperial (U.S.) Conversions Imperial to metric conversions: Area Imperial to metric conversions: Volume Imperial to metric conversions: Mass Imperial to metric conversions: Temperature Fahrenheit to Celsius conversions: Celsius to Fahrenheit conversion scale. [Long Description] Questions For questions 1 to 18, use dimensional analysis to perform the indicated conversions. 7 miles to yards 234 oz to tons 11.2 mg to grams 1.35 km to centimetres 9,800,000 mm to miles 4.5 ft2 to square yards 435,000 m2 to square kilometres 8 km2 to square feet 0.0065 km3 to cubic metres 14.62 in3 to square centimetres 5500 cm3 to cubic yards 3.5 mph (miles per hour) to feet per second 185 yd per min. to miles per hour 153 ft/s (feet per second) to miles per hour 248 mph to metres per second 186,000 mph to kilometres per year 7.50 tons/yr2 to pounds per square inch 16 ft/s2 to kilometres per hour squared For questions 19 to 27, solve each conversion word problem. On a recent trip, Jan travelled 260 miles using 8 gallons of gas. What was the car's miles per gallon for this trip? Kilometres per litre? A certain laser printer can print 12 pages per minute. Determine this printer's output in pages per day. An average human heart beats 60 times per minute. If the average person lives to the age of 86, how many times does the average heart beat in a lifetime? Blood sugar levels are measured in milligrams of glucose per decilitre of blood volume. If a person's blood sugar level measured 128 mg/dL, what is this in grams per litre? You are buying carpet to cover a room that measures 38 ft by 40 ft. The carpet cost \$18 per square yard. How much will the carpet cost? A cargo container is 50 ft long, 10 ft wide, and 8 ft tall. Find its volume in cubic yards and cubic metres. A local zoning ordinance says that a house's "footprint" (area of its ground floor) cannot occupy more than ¼ of the lot it is built on. Suppose you own a -acre lot (1 acre = 43,560 ft2). What is the maximum allowed footprint for your house in square feet? In square metres? A car travels 23 km in 15 minutes. How fast is it going in kilometres per hour? In metres per second? The largest single rough diamond ever found, the Cullinan Diamond, weighed 3106 carats. One carat is equivalent to the mass of 0.20 grams. What is the mass of this diamond in milligrams? Weight in pounds? Answer Key 1.6 Long Descriptions Celsius to Fahrenheit conversion scale long description: Scale showing conversions between Celsius and Fahrenheit. The following table summarizes the data: Celsius Fahrenheit -40°C -40°F -30°C -22°F -20°C -4°F -10°C 14°F 0°C 32°F 10°C 50°F 20°C 68°F 30°C 86°F 40°C 104°F 50°C 122°F 60°C 140°F 70°C 158°F 80°C 176°F 90°C 194°F 100°C 212°F [Return to Celsius to Fahrenheit conversion scale] Turn your PDF publications into a flip-book with our unique Google optimized e-Paper software. Copy Algebra 1 Unit Conversion Homework Extended embed settings Docx - Algebra 1 Unit Conversion Worksheet Answers is a free transparent PNG image carefully selected by PNGkey.com. The resolution of PNG image is 595x842 and classified to null. 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