MATH

Measurement conversion word problems



Name _____ Date _____

🎯 I can solve word problems that need a conversion.

1 How it works 💡

Many word problems use two different units. First change both measurements to the same unit, usually the smaller one. Then add, subtract, multiply or divide. Last, check that your answer has the right unit and makes sense.

Remember

1 foot = 12 inches
1 yard = 3 feet
1 yard = 36 inches
1 pound = 16 ounces
1 gallon = 4 quarts

2 Convert

Big unit to small unit: multiply. Small to big: divide.

1. 9 yards = ____ inches
2. 11 yards = ____ feet
3. 3 quarts = ____ pints
4. 5 pints = ____ cups
5. 7 feet = ____ inches
6. 8 gallons = ____ quarts
7. 10 pounds = ____ ounces
8. 9 quarts = ____ cups
9. 90 millimeters = ____ centimeters
10. 900 centimeters = ____ meters

How did I do? ☆ ☆ ☆

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MATH · MEASUREMENT CONVERSION WORD PROBLEMS

Tables and mixed units

Name _____ Date _____

I can complete a conversion table and change mixed units.

1 Complete the tables

Look for the pattern down each column.

1 yard = 36 inches

yards	inches
1	36
2	
3	
4	
5	

1 pound = 16 ounces

pounds	ounces
1	16
	32
3	
	64
	80

2 Change to the smaller unit

Change the big unit, then add the rest.

1. 9 feet 4 inches = ____ inches
2. 7 yards 1 foot = ____ feet
3. 9 yards 19 inches = ____ inches
4. 4 pounds 3 ounces = ____ ounces
5. 9 gallons 2 quarts = ____ quarts
6. 5 quarts 1 cup = ____ cups

How did I do? ☆ ☆ ☆

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Compare and regroup

Name _____ Date _____

I can compare measurements and change to bigger units.

1 Write >, < or = in the circle

Change to the same unit first.

1. 8 kilograms ◯ 8,000 grams
2. 3 liters ◯ 3,000 milliliters
3. 2 hours ◯ 134 minutes
4. 3 kilometers ◯ 3,100 meters
5. 2 days ◯ 48 hours
6. 9 minutes ◯ 540 seconds

2 Change to the bigger unit

How many whole big units? What is left over?

1. 29 millimeters = ____ centimeters ____ millimeters
2. 450 centimeters = ____ meters ____ centimeters
3. 3,300 meters = ____ kilometers ____ meters
4. 6,950 grams = ____ kilograms ____ grams

3 Think about it

1. What should you do first when the units are different?
2. How many inches are in 1 yard?
3. How many milliliters are in 3 liters?

How did I do? ☆ ☆ ☆

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Word problems

Name _____ Date _____

🎯 **I can solve measurement problems by changing units.**

1 Read, convert, solve

Show your work in the box. Write the unit in your answer.

1 A fence is 4 yards long. How many feet is that? How many inches?

Answer: _____

2 A recipe needs 3 cups of milk. Omar has 1 quart. Is that enough? How many cups are left over?

Answer: _____

3 Zara rides 2 km 300 m on Monday and 1 km 900 m on Tuesday. How far is that in all, in meters?

Answer: _____

4 A school day lasts 6 hours 30 minutes. How many minutes is that?

Answer: _____

How did I do? ☆ ☆ ☆

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FOR TEACHERS AND PARENTS

Answer key: measurement conversion word problems

1 Page 1

Convert: 1) 324 inches; 2) 33 feet; 3) 6 pints; 4) 10 cups; 5) 84 inches; 6) 32 quarts; 7) 160 ounces; 8) 36 cups; 9) 9 centimeters; 10) 9 meters.

2 Page 2

Table 1) 72, 108, 144, 180

Table 2) 2, 48, 4, 5

Smaller unit: 1) 112 inches; 2) 22 feet; 3) 343 inches; 4) 67 ounces; 5) 38 quarts; 6) 21 cups.

3 Page 3

Compare: 1) =; 2) =; 3) <; 4) <; 5) =; 6) =.

Bigger unit: 1) 2 centimeters 9 millimeters; 2) 4 meters 50 centimeters; 3) 3 kilometers 300 meters; 4) 6 kilograms 950 grams.

Think: 1) Change them to the same unit; 2) 36 inches; 3) 3,000 milliliters.

4 Page 4: word problems

1) 4 × 3 = 12 feet; 12 × 12 = 144 inches

2) Yes. 1 quart = 4 cups, so 1 cup is left over

3) 2,300 + 1,900 = 4,200 meters

4) 6 × 60 + 30 = 390 minutes

5 Teaching tip 💡

Ask children to circle each unit in the problem before they start. If the circles show two different units, they know a conversion comes first.

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