Converting Measurement Units

Name: _____ Date: _____ Score: _____ / 24

Quick Review

You can **convert measurement units** by multiplying or dividing using a known relationship. Useful facts: 1 foot $= 12$ inches, 1 yard $= 3$ feet, 1 pound $= 16$ ounces, 1 gallon $= 4$ quarts, 1 hour $= 60$ minutes, 1 kilometer $= 1000$ meters, 1 meter $= 100$ centimeters, 1 liter $= 1000$ milliliters. To go from a **bigger unit to a smaller one**, multiply (there will be more of them). To go from a **smaller unit to a bigger one**, divide.

◇ **Example:** Convert 3 feet to inches.

⇒ We are going from a bigger unit (feet) to a smaller unit (inches), so we expect a larger number and we multiply. The relationship is 1 foot $= 12$ inches. Multiply the number of feet by 12: $3 \times 12 = 36$. So 3 feet equals 36 inches. It makes sense that there are more inches than feet, since inches are smaller.

Answer: 36 inches

PRACTICE

Convert each measurement.

1. 3 ft $=$ ☐ in _____
2. 2.5 km $=$ ☐ m _____
3. 48 in $=$ ☐ ft _____
4. 5000 m $=$ ☐ km _____
5. 3 lb $=$ ☐ oz _____
6. 2 gal $=$ ☐ qt _____
7. 180 min $=$ ☐ h _____
8. 4 yd $=$ ☐ ft _____
9. 2.5 L $=$ ☐ mL _____
10. 96 oz $=$ ☐ lb _____
11. 7 days $=$ ☐ h _____
12. 3 m $=$ ☐ cm _____
13. 10 qt $=$ ☐ gal _____
14. 1.5 ft $=$ ☐ in _____
15. 5 km $=$ ☐ m _____
16. 6 ft $=$ ☐ yd _____
17. 2 h $=$ ☐ min _____
18. 64 oz $=$ ☐ lb _____
19. 8 pt $=$ ☐ qt _____
20. 2000 lb $=$ ☐ ton _____

♦ Word Problems

21. A ribbon is 4 yards long. How many feet of ribbon is that? _____
22. A water bottle holds 2.5 liters. How many milliliters does it hold? _____
23. A bag of dog food weighs 96 ounces. How many pounds does it weigh? _____
24. A car trip lasts 180 minutes. How many hours long is the trip? _____

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Answer Keys

1. 36
2. 2500
3. 4
4. 5
5. 48
6. 8
7. 3
8. 12
9. 2500
10. 6
11. 168
12. 300
13. 2.5
14. 18
15. 5000
16. 2
17. 120
18. 4
19. 4
20. 1
21. 12 feet
22. 2500 milliliters
23. 6 pounds
24. 3 hours

Step-by-Step Explanations

1. Multiply by 12: $3 \times 12 = 36$ inches.
2. Multiply by 1000: $2.5 \times 1000 = 2500$ meters.
3. Divide by 12: $48 \div 12 = 4$ feet.
4. Divide by 1000: $5000 \div 1000 = 5$ kilometers.
5. Multiply by 16: $3 \times 16 = 48$ ounces.
6. Multiply by 4: $2 \times 4 = 8$ quarts.
7. Divide by 60: $180 \div 60 = 3$ hours.
8. Multiply by 3: $4 \times 3 = 12$ feet.
9. Multiply by 1000: $2.5 \times 1000 = 2500$ milliliters.
10. Divide by 16: $96 \div 16 = 6$ pounds.
11. Multiply by 24: $7 \times 24 = 168$ hours.
12. Multiply by 100: $3 \times 100 = 300$ centimeters.
13. Divide by 4: $10 \div 4 = 2.5$ gallons.
14. Multiply by 12: $1.5 \times 12 = 18$ inches.
15. Multiply by 1000: $5 \times 1000 = 5000$ meters.
16. Divide by 3: $6 \div 3 = 2$ yards.
17. Multiply by 60: $2 \times 60 = 120$ minutes.
18. Divide by 16: $64 \div 16 = 4$ pounds.
19. There are 2 pints in a quart, so $8 \div 2 = 4$ quarts.
20. There are 2000 pounds in a ton, so $2000 \div 2000 = 1$ ton.
21. Yards to feet means multiplying by 3: $4 \times 3 = 12$ feet.
22. Liters to milliliters means multiplying by 1000: $2.5 \times 1000 = 2500$ mL.
23. Ounces to pounds means dividing by 16: $96 \div 16 = 6$ pounds.
24. Minutes to hours means dividing by 60: $180 \div 60 = 3$ hours.

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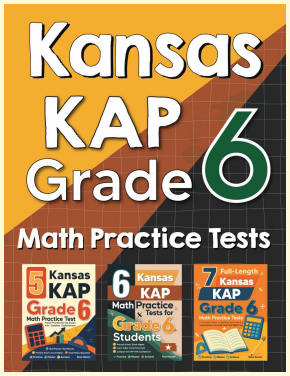

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