

Customary Conversions with Fractions

Name: _____

Grade 5 · Convert feet, pounds, hours and gallons both ways when the amount has a fraction

How it works

A measurement can have a fraction in it. Convert it the same way.

To a smaller unit, multiply: $2\frac{1}{2}$ feet = $2\frac{1}{2} \times 12 = 30$ inches.

To a larger unit, divide: 54 inches = $54 \div 12 = 4\frac{1}{2}$ feet.

1 foot = 12 inches

1 yard = 3 feet

1 pound = 16 ounces

1 gallon = 4 quarts

1 quart = 2 pints

1 pint = 2 cups

1 hour = 60 minutes

A. Convert to the smaller unit.

1. $\frac{1}{2}$ foot = _____ inches

2. $3\frac{1}{2}$ feet = _____ inches

3. $\frac{3}{4}$ pound = _____ ounces

4. $2\frac{1}{2}$ pounds = _____ ounces

5. $4\frac{1}{2}$ gallons = _____ quarts

6. $\frac{1}{4}$ hour = _____ minutes

7. $1\frac{3}{4}$ hours = _____ minutes

8. $\frac{2}{3}$ yard = _____ feet

B. Convert to the larger unit. Write a fraction or a mixed number.

1. 18 inches = $\frac{\boxed{}}{\boxed{}}$ feet

2. 8 ounces = $\frac{\boxed{}}{\boxed{}}$ pound

3. 36 ounces = $\frac{\boxed{}}{\boxed{}}$ pounds

4. 10 quarts = $\frac{\boxed{}}{\boxed{}}$ gallons

5. 45 minutes = $\frac{\boxed{}}{\boxed{}}$ hour

6. 4 feet = $\frac{\boxed{}}{\boxed{}}$ yards

7. 3 cups = $\frac{\boxed{}}{\boxed{}}$ pints

8. 15 inches = $\frac{\boxed{}}{\boxed{}}$ feet

C. Gallons, quarts, pints and cups. Convert.

1. 2 gallons = _____ pints

2. 3 quarts = _____ cups

3. 5 gallons = _____ cups

4. 24 cups = _____ quarts

5. 32 pints = _____ gallons

6. 48 cups = _____ gallons

D. Solve.

1. A cat weighs $8\frac{1}{2}$ pounds. How many ounces does it weigh? _____

2. A movie is 105 minutes long. How many hours long is it? _____

Customary Conversions with Fractions (Answer Key)

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How it works

A measurement can have a fraction in it. Convert it the same way.

To a smaller unit, multiply: $2\frac{1}{2}$ feet = $2\frac{1}{2} \times 12 = 30$ inches.

To a larger unit, divide: 54 inches = $54 \div 12 = 4\frac{1}{2}$ feet.

1 foot = 12 inches

1 yard = 3 feet

1 pound = 16 ounces

1 gallon = 4 quarts

1 quart = 2 pints

1 pint = 2 cups

1 hour = 60 minutes

A. Convert to the smaller unit.

1. $\frac{1}{2}$ foot = 6 inches

2. $3\frac{1}{2}$ feet = 42 inches

3. $\frac{3}{4}$ pound = 12 ounces

4. $2\frac{1}{2}$ pounds = 40 ounces

5. $4\frac{1}{2}$ gallons = 18 quarts

6. $\frac{1}{4}$ hour = 15 minutes

7. $1\frac{3}{4}$ hours = 105 minutes

8. $\frac{2}{3}$ yard = 2 feet

B. Convert to the larger unit. Write a fraction or a mixed number.

1. 18 inches = $1\frac{1}{2}$ feet

2. 8 ounces = $\frac{1}{2}$ pound

3. 36 ounces = $2\frac{1}{4}$ pounds

4. 10 quarts = $2\frac{1}{2}$ gallons

5. 45 minutes = $\frac{3}{4}$ hour

6. 4 feet = $1\frac{1}{3}$ yards

7. 3 cups = $1\frac{1}{2}$ pints

8. 15 inches = $1\frac{1}{4}$ feet

C. Gallons, quarts, pints and cups. Convert.

1. 2 gallons = 16 pints

2. 3 quarts = 12 cups

3. 5 gallons = 80 cups

4. 24 cups = 6 quarts

5. 32 pints = 4 gallons

6. 48 cups = 3 gallons

D. Solve.

1. A cat weighs $8\frac{1}{2}$ pounds. How many ounces does it weigh?

136 ounces

2. A movie is 105 minutes long. How many hours long is it?

$1\frac{3}{4}$ hours