

Name: Class:

Convert mixed customary units

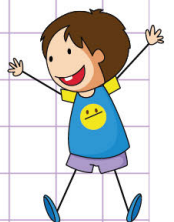
Convert the following mixed customary unit.

a. 10 gallons 3 quarts = _____ quarts.

b. 52 ounces 3,000 pounds = _____ pounds.

c. 27 pints 6 cups = _____ cups.

d. 154 inches = _____ yards _____ inches.



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Convert the following mixed customary unit.

a. 10 gallons 3 quarts = _____ quarts.

Let's first of all convert 10 gallons to quarts.

If 1 gallon = 4 quarts,

then 10 gallons = 4×10 quarts = 40 quarts.

Now, let's add 40 quarts to 3 quarts.

$$(40 + 3) \text{ quarts} = 43 \text{ quarts.}$$

So, 10 gallons 3 quarts = 43 quarts.

b. 52 ounces 3,000 pounds = _____ pounds.

Let's first of all convert 52 ounces to pounds.

If 16 ounces = 1 pound,

then 52 ounces = $(52/16)$ pounds = 3.25 pounds.

Now, let's add 3.25 pounds to 3,000 pounds.

$$(3,000 + 3.25) \text{ pounds} = 3,003.25 \text{ pounds.}$$

So, 52 ounces 3,000 pounds = 3,003.25 pounds.

c. 27 pints 6 cups = _____ cups.

Let's first of all convert 27 pints to cups.

If 1 pint = 2 cups,

then 27 pints = 27×2 = 54 cups.

Now, let's add 54 cups to 6 cups.

$$(54 + 6) \text{ cups} = 60 \text{ cups}$$

So, 27 pints 6 cups = 60 cups.

d. 154 inches = _____ yards _____ inches.

Let's first of all convert 154 inches to yards.

If 36 inches = 1 yard,

then, 154 inches = $154/36$ = 4 R 10

So, 154 inches = 4 yards 10 inches.

