

Name: Class:

Compare customary units by multiplication

1. A pencil is 7 inches long. Find out if a line of 10 pencils is longer than 1 yard.



2. A spade can hold 20 pints of soil. Can 8 spades hold more than 64 quarts of soil?

3. If one guava holds 7 teaspoons of seeds, can 6 guavas hold more than 2 cups of seeds.

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1. A pencil is 7 inches long. Find out if a line of 10 pencils is longer than 1 yard.

Let's first of all find the length of 10 pencils.

Multiply 10 by the length (7 inches)

$$10 \times 7 = 70 \text{ inches}$$

So, 10 pencils are 70 inches long.

Secondly, let's compare 70 inches to 1 yard.

$$36 \text{ inches} = 1 \text{ yard}$$

Since 36 inches is less than 70 inches, it implies that a line of 10 pencils is longer than 1 yard.



2. A spade can hold 20 pints of soil. Can 8 spades hold more than 64 quarts of soil?

Let's first of all find the number of pints 8 spades can hold

If 1 spade can hold 20 pints,

then 8 spades can hold 20×8 pints = 160 pints

Let's convert 160 pints to quarts.

If 2 pints = 1 quart,

then 160 pints = $160/2 = 80$ quarts

Now let's compare

Since 80 quarts is greater than 64 quarts, it implies that 8 spades can hold more than 64 quarts of soil.

3. If one guava holds 7 teaspoons of seeds, can 6 guavas hold more than 2 cups of seeds.

Let's first of all find the number of teaspoons of seeds 6 guavas can hold.

If 1 guava holds 7 teaspoons of seeds,

then 6 guavas will hold 6×7 teaspoons of seeds = 42 teaspoons of seeds.

Let's convert 42 teaspoons to cups.

If 48 teaspoons = 1 cup,

then 42 teaspoons = $42/48 = 0.875$ cup = 1 cup.

Now, let's compare

Since 1 cup is less than 2 cups, it implies that, 6 guavas can't hold 2 cups of seed.

It can hold only 1 cup.