

## Answer on Question #61706 – Math – Algebra

### Question

For Valentine's day, Alex wants to sew a teddy bears for her friends.

Each bear requires  $1 \frac{2}{3}$  yd of fabric.

If she has a 7 yd of material, how many bears can Alex make?

How much fabric will be left over?

### Solution

$$1 \frac{2}{3} \text{ yd} = \frac{5}{3} \text{ yd}$$

$$7 : \frac{5}{3} = 7 \cdot \frac{3}{5} = \frac{21}{5} = 4 \frac{1}{5} \approx 4 \text{ teddy bears;}$$

$$4 \cdot \frac{5}{3} = \frac{20}{3} = 6 \frac{2}{3} \text{ yd}$$

$$7 - 6 \frac{2}{3} = \frac{1}{3} \text{ yd}$$

Thus, Alex can make 4 teddy bears and it will be left  $\frac{1}{3}$  yd of fabric.

**Answer:** 4 teddy bears;  $\frac{1}{3}$  yd.