

**A barista averages making 16 coffees per hour. At this rate, how many hours will it take until she's made 1,200 coffees?**

**Answer 1**

Answer: 16 times  $x=1200$  or

$$16x=1200$$

divide both sides by 16

$$1200/16$$

so we simplify  $1200/16$  by factoring out the ones ( $4/8=1/2$  times  $4/4$  since  $4/4=1$ )

$$1200=3*2*2*2*2*5*5$$

$$16=2*2*2*2*1$$

so we notice that there are four 2's in both so those are the 'ones' so cross them off and get

$$3*5*5/1 \text{ or } 75/1 \text{ or } 75 \text{ hours}$$

**Answer 2**

Answer: 75 hours

$$1200 \text{ coffees} / 16 \text{ coffees} = 75 \text{ hours}$$

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