

Two people can build four identical walls in three days.

At this rate, how many of these walls could ten people build in 3.75 days?

NOTE: This is a **DIRECT PROPORTION** question: if two quantities are in direct proportion, as one increases, the other increases by the same percentage.

Solution:

1. First find how many walls 2 people can build in 3.75 days.

Keeping the number of people (2) constant:

Can build: 4 walls in 3 days

$$4 \div 3 = 1\frac{1}{3} \text{ walls in 1 day}$$

$$3.75 \times 1\frac{1}{3} = 5 \text{ walls in 3.75 days}$$

2. Then find how many walls 10 people can build in 3.75 days.

Keeping the number of days (3.75) constant:

2 people can build 5 walls

1 person can build $5 \div 2 = 2.5$ walls

10 people can build $2.5 \times 10 = 25$ walls