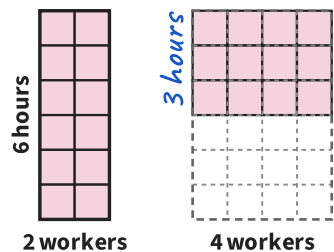


Inverse Proportion

ANSWERS

1

2 workers paint a fence in 6 hours.
How long do 4 workers take?

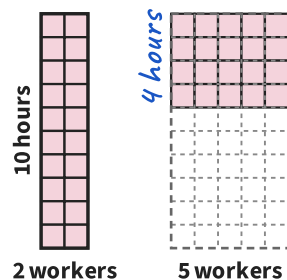


$$\text{Blocks} = 2 \times 6 = 12$$

$$\text{Hours} = 12 \div 4 = 3$$

2

2 workers build a shed in 10 hours.
How long do 5 workers take?

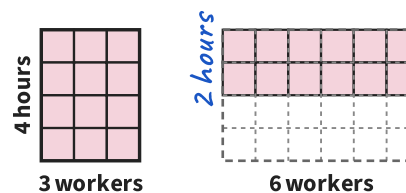


$$\text{Blocks} = 2 \times 10 = 20$$

$$\text{Hours} = 20 \div 5 = 4$$

3

3 workers tidy a park in 4 hours.
How long do 6 workers take?

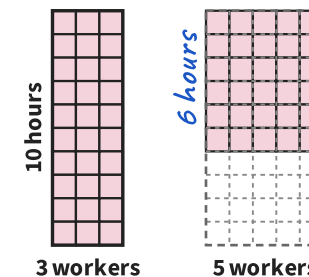


$$\text{Blocks} = 3 \times 4 = 12$$

$$\text{Hours} = 12 \div 6 = 2$$

4

3 workers paint a hall in 10 hours.
How long do 5 workers take?

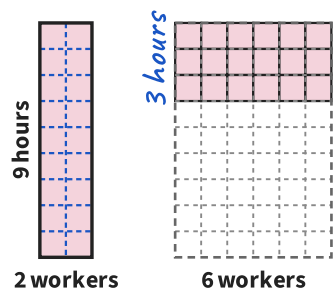


$$\text{Blocks} = 3 \times 10 = 30$$

$$\text{Hours} = 30 \div 5 = 6$$

5

2 workers dig a pond in 9 hours.
How long do 6 workers take?

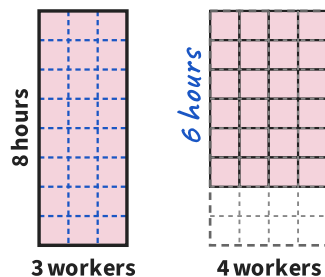


$$\text{Blocks} = 2 \times 9 = 18$$

$$\text{Hours} = 18 \div 6 = 3$$

6

3 workers lay a path in 8 hours.
How long do 4 workers take?

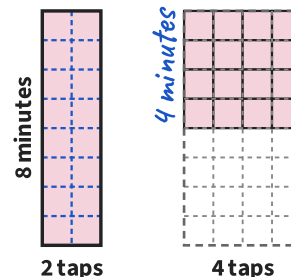


$$\text{Blocks} = 3 \times 8 = 24$$

$$\text{Hours} = 24 \div 4 = 6$$

7

2 taps fill a tank in 8 minutes.
How long do 4 taps take?

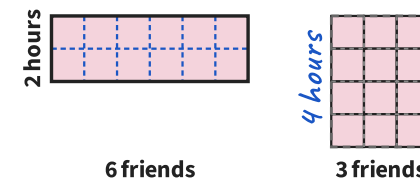


$$\text{Blocks} = 2 \times 8 = 16$$

$$\text{Minutes} = 16 \div 4 = 4$$

8

6 friends tidy a garden in 2 hours.
How long do 3 friends take?



$$\text{Blocks} = 6 \times 2 = 12$$

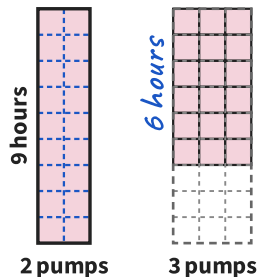
$$\text{Hours} = 12 \div 3 = 4$$

Inverse Proportion *further practice*

ANSWERS

9

2 pumps empty a pond in 9 hours.
How long do 3 pumps take?

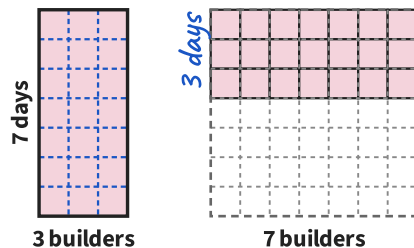


Blocks = $2 \times 9 = 18$

Hours = $18 \div 3 = 6$

10

3 builders build a wall in 7 days.
How long do 7 builders take?

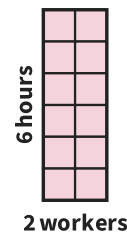


Blocks = $3 \times 7 = 21$

Days = $21 \div 7 = 3$

11

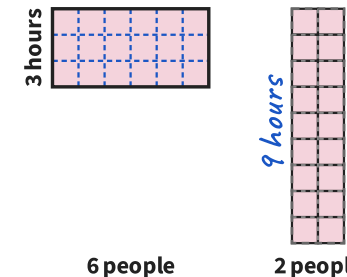
2 workers paint a room in 6 hours.
Complete the table for the same job.



Workers	2	3	4	6
Hours	6	4	3	2

12

6 people pick the apples in 3 hours.
How long do 2 people take?

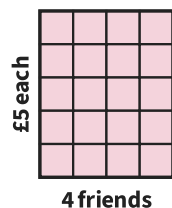


Blocks = $6 \times 3 = 18$

Hours = $18 \div 2 = 9$

13

4 friends share a prize and get £5 each. How much does each get if 10 friends share it?



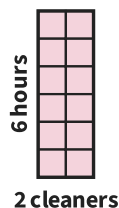
$4 \times £5 = £20$

$£20 \div 10 = £2$

Answer £2

14

2 cleaners clean a school in 6 hours.
How many hours sooner do 3 cleaners finish?



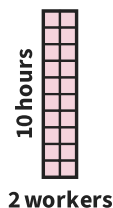
$2 \times 6 = 12 \text{ blocks}$

$12 \div 3 = 4, 6 - 4 = 2$

Answer 2 hours

15

2 workers paint a hall in 10 hours.
It must be done in 4 hours.
How many workers are needed?



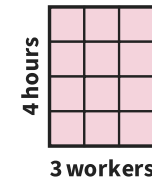
$2 \times 10 = 20 \text{ blocks}$

$20 \div 4 = 5$

Answer 5 workers

16

3 workers build a fence in 4 hours.
Sam says 6 workers take 8 hours.
What has Sam done wrong?



Sam is wrong because
more workers take less time.

$12 \text{ blocks} \div 6 = 2 \text{ hours}$

Right answer 2 hours