Maths

Proportion problems

Mr Clasper

Proportion problems

1. It takes two people 2 days to build a wall.

a) How long would it take 1 person?

b) How long would it take 4 people?

c) What assumption have you made?

2. It takes four people 10 days to decorate a house.

a) How long would it take 3 people?

b) How long would it take 10 people?

c) What assumption have you made?

3. It takes Matt 4 hours to cycle 36 miles.
a) How far will he cycle in 7 hours?

b) What assumption have you made?

4. It takes six people 5 days to repair a road.
a) If two more people were available to help, how much quicker would it be to repair the road?

b) What assumption have you made?

Answers

Proportion problems

1. It takes two people 2 days to build a wall.

a) How long would it take 1 person?

4 days

b) How long would it take 4 people?

1 day

c) What assumption have you made?

All people work at the same rate

2. It takes four people 10 days to decorate a house.

a) How long would it take 3 people?

$13\frac{1}{3}$ days

b) How long would it take 10 people?

4 days

c) What assumption have you made?

All people work at the same rate

3. It takes Matt 4 hours to cycle 36 miles.

a) How far will he cycle in 7 hours?

63 miles

b) What assumption have you made?

Matt cycles at a constant speed

4. It takes six people 5 days to repair a road.

a) If two more people were available to help, how much quicker would it be to repair the road?

1.25 days

b) What assumption have you made?

All people work at the same rate