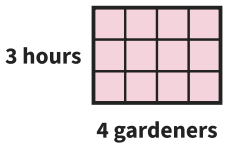
Inverse proportion: workers and time

1

4 gardeners take **3 hours** to plant a flower bed. Each block is one gardener for one hour. How long would **6 gardeners** take?

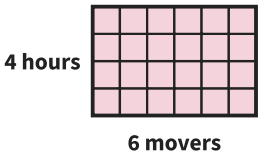


Total	4	×	3	=	12	
Share		÷		=		
Check		×		=		

Answer _____

2

6 movers take **4 hours** to pack up a house. How long would **8 movers** take?



Total		×		=		
Share		÷		=		
Check		×		=		

Answer _____

3

It takes **6 volunteers 8 hours** to clear the litter from a beach. How long would **16 volunteers** take?

Total		×		=		
Share		÷		=		
Check		×		=		

Answer _____

4

A cycle route takes **3 hours** at **16 km/h**. How long does the same route take at **12 km/h**?

Total		×		=		
Share		÷		=		
Check		×		=		

Answer _____

5

It takes **2 chefs 12 hours** to cook the food for a wedding. The food must be ready in **3 hours**. How many more chefs are needed?

Answer _____

6

It takes **6 tilers 4 hours** to tile a floor. Omar says **3 tilers** would take **2 hours**, because there are half as many tilers. Explain Omar's mistake. Then find how long 3 tilers would take.

Answer _____

7

3 pumps empty a pond in **5 hours**. How long would **2 pumps** take? Give your answer in hours and minutes.

Answer _____

8

A train journey takes **2 hours** at **90 mph**. How long would the same journey take at **120 mph**? Give your answer in hours and minutes.

Answer _____

Inverse proportion: workers and time *further practice*

9

It takes **5 builders 6 days** to build a garden wall. How long would **3 builders** take?

Answer _____

10

The table shows how long a job takes with different numbers of workers. Complete the table.

Workers	2	3	4	6
Hours	12			

_____

11

A sack of dog food feeds **3 dogs** for **20 days**. How many days would it feed **5 dogs**?

Answer _____

12

Ana walks a route in **3 hours** at **4 km/h**. How fast must she walk to finish the same route in **2 hours**?

Answer _____

13

4 robots pack an order in **7 hours**. How long would **5 robots** take? Give your answer in hours and minutes.

Answer _____

14

It takes **3 caretakers 15 hours** to set out a hall for exams. The hall must be ready in **4 hours**. How many caretakers are needed?

Answer _____

15

A ferry crosses a lake in **1 hour 30 minutes** at **40 km/h**. A hovercraft crosses the same lake at **60 km/h**. How many minutes does the hovercraft save?

Answer _____

16

It takes **1 person 30 minutes** to make a pizza. Kim says **30 people** would make it in **1 minute**. Explain why Kim's answer does not make sense.

Answer _____