Mixture & Work Word Problems · 1

How many liters of an 85% acid solution must be mixed with 1 liter of a 70% acid solution to make an 80% acid solution?

Mixture & Work Word Problems · 2

Priya can shelve a cart of library books in 28 minutes. Sam can do the same job in 21 minutes. How many minutes does the job take if they work together?

Mixture & Work Word Problems · 3

A store mixes granola costing $16 per pound with 3 pounds of oat cereal costing $8 per pound. The mixture is worth $12 per pound. How many pounds of granola are in the mixture?

Mixture & Work Word Problems · 4

Working together, Ana and Ben can sort a crate of mail in 10 minutes. Working alone, Ana needs 35 minutes. How many minutes would Ben need working alone?

Mixture & Work Word Problems · 5

How many liters of water must be added to 12 liters of a 30% salt solution to make a 20% salt solution?

Mixture & Work Word Problems · 6

A chemist needs 3 liters of a 45% acid solution and has a 30% solution and a 75% solution to mix. How many liters of the 75% solution should the chemist use?

Mixture & Work Word Problems · 7

1 pound of oat cereal costing $10 per pound is mixed with 1 pound of granola costing $16 per pound. What is the cost per pound of the mixture?

Mixture & Work Word Problems · 8

Working together, Omar and Lily can wipe down the lab tables in 8 minutes. Working alone, Omar needs 10 minutes. How many minutes would Lily need working alone?

Mixture & Work Word Problems · 2

ANSWER

12

Mixture & Work Word Problems · 1

ANSWER

2

Mixture & Work Word Problems · 4

ANSWER

14

Mixture & Work Word Problems · 3

ANSWER

3

Mixture & Work Word Problems · 6

ANSWER

1

Mixture & Work Word Problems · 5

ANSWER

6

Mixture & Work Word Problems · 8

ANSWER

40

Mixture & Work Word Problems · 7

ANSWER

$13

Mixture & Work Word Problems · 9

How many liters of a 20% salt solution must be mixed with 14 liters of a 65% salt solution to make a 55% salt solution?

Mixture & Work Word Problems · 10

Ivan can shelve a cart of library books in 20 minutes. Zoe can do the same job in 30 minutes. How many minutes does the job take if they work together?

Mixture & Work Word Problems · 11

A store mixes granola costing $12 per pound with 3 pounds of oat cereal costing $10 per pound. The mixture is worth $11 per pound. How many pounds of granola are in the mixture?

Mixture & Work Word Problems · 12

Working together, Nora and Jack can sort a crate of mail in 10 minutes. Working alone, Nora needs 30 minutes. How many minutes would Jack need working alone?

Mixture & Work Word Problems · 13

How many liters of water must be added to 22 liters of a 20% salt solution to make a 10% salt solution?

Mixture & Work Word Problems · 14

A chemist needs 11 liters of a 50% sugar solution and has a 25% solution and an 80% solution to mix. How many liters of the 80% solution should the chemist use?

Mixture & Work Word Problems · 15

12 pounds of black tea costing $9 per pound are mixed with 3 pounds of jasmine tea costing $14 per pound. What is the cost per pound of the mixture?

Mixture & Work Word Problems · 16

Working together, Ivan and Zoe can stack a pallet of boxes in 6 minutes. Working alone, Ivan needs 7 minutes. How many minutes would Zoe need working alone?

Mixture & Work Word Problems · 10

ANSWER

12

Mixture & Work Word Problems · 9

ANSWER

4

Mixture & Work Word Problems · 12

ANSWER

15

Mixture & Work Word Problems · 11

ANSWER

3

Mixture & Work Word Problems · 14

ANSWER

5

Mixture & Work Word Problems · 13

ANSWER

22

Mixture & Work Word Problems · 16

ANSWER

42

Mixture & Work Word Problems · 15

ANSWER

$10

Mixture & Work Word Problems · 17

A chemist needs 32 liters of a 70% alcohol solution and has a 35% solution and a 75% solution to mix. How many liters of the 35% solution should the chemist use?

Mixture & Work Word Problems · 18

Nora can sort a crate of mail in 24 minutes and Jack can do it in 40 minutes. Nora works alone for 16 minutes, and then Jack joins in. How many more minutes does it take them to finish the job together?

Mixture & Work Word Problems · 19

A store wants 16 pounds of a mixture worth $14 per pound, made from oat cereal costing $2 per pound and granola costing $18 per pound. How many pounds of oat cereal are needed?

Mixture & Work Word Problems · 20

A pipe can fill an empty tank in 15 hours. A drain can empty the full tank in 20 hours. If the pipe is turned on while the drain is open, how many hours does it take to fill the empty tank?

Mixture & Work Word Problems · 21

How many liters of pure alcohol must be added to 32 liters of a 15% alcohol solution to make a 20% alcohol solution?

Mixture & Work Word Problems · 22

Nora can wash the windows of a school in 2 hours. Jack can do the same job in 4 hours. How many hours does the job take if they work together? Write a mixed number.

Mixture & Work Word Problems · 23

How many liters of water must be added to 36 liters of a 35% salt solution to make a 15% salt solution?

Mixture & Work Word Problems · 24

Working together, Omar and Lily can stack a pallet of boxes in 6 minutes. Working alone, Omar needs 9 minutes. How many minutes would Lily need working alone?

Mixture & Work Word Problems · 18

ANSWER

5

Mixture & Work Word Problems · 17

ANSWER

4

Mixture & Work Word Problems · 20

ANSWER

60

Mixture & Work Word Problems · 19

ANSWER

4

Mixture & Work Word Problems · 22

ANSWER

$$1\frac{1}{3}$$

Mixture & Work Word Problems · 21

ANSWER

2

Mixture & Work Word Problems · 24

ANSWER

18

Mixture & Work Word Problems · 23

ANSWER

48