



Fangcheng: eliminate an unknown

PRACTICE WORKSHEET

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Name: _____ Date: _____

Show your working in the blank space or on separate paper. Sketch labelled rods/beads when asked to represent a number.

1 Solve $2x + y = 11$ and $x + y = 7$.

2 Solve $2x + y = 17$ and $x + y = 13$.

3 Solve $2x + y = 11$ and $x + y = 9$.

4 Solve $2x + y = 23$ and $x + y = 14$.

5 Solve $2x + y = 21$ and $x + y = 14$.

6 Solve $2x + y = 15$ and $x + y = 10$.

7 Solve $2x + y = 9$ and $x + y = 6$.

8 Solve $2x + y = 7$ and $x + y = 6$.

9 Solve $2x + y = 11$ and $x + y = 7$.

10 Solve $2x + y = 5$ and $x + y = 3$.

11 Solve $2x + y = 21$ and $x + y = 12$.

12 Solve $2x + y = 15$ and $x + y = 8$.

Practise interactively and explore the method:

<https://goofergames.com/math/world/fangcheng>



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ANSWER KEY

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Use after completing the practice page. Values are generated by the page's shared engine.

Equivalent exact representations are valid where the prompt allows them. Non-integer results are rounded to two decimals.

1 Answer: 4

x after subtracting the second row: 4; y after substitution: 3

2 Answer: 4

x after subtracting the second row: 4; y after substitution: 9

3 Answer: 2

x after subtracting the second row: 2; y after substitution: 7

4 Answer: 9

x after subtracting the second row: 9; y after substitution: 5

5 Answer: 7

x after subtracting the second row: 7; y after substitution: 7

6 Answer: 5

x after subtracting the second row: 5; y after substitution: 5

7 Answer: 3

x after subtracting the second row: 3; y after substitution: 3

8 Answer: 1

x after subtracting the second row: 1; y after substitution: 5

9 Answer: 4

x after subtracting the second row: 4; y after substitution: 3

10 Answer: 2

x after subtracting the second row: 2; y after substitution: 1

11 Answer: 9

x after subtracting the second row: 9; y after substitution: 3

12 Answer: 7

x after subtracting the second row: 7; y after substitution: 1

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