

This problem gives you the chance to:

- use algebra to represent a real situation
- solve an algebraic equation
- check that the answer works

T1

Dinner Menu

Three-course meal

\$15

Two-course meal

\$12

See our delicious choices!

(15.7)+(12.3)=14/

Ten friends go out for a meal.

Some friends have three-course meals and the rest have two-course meals.

The bill for all 10 meals is \$141 dollars.

The number of people who have three-course meals is x.

1. One of these equations can be solved to find the correct value of x.

$$15x + 12x = 141$$

$$15x + 12(x - 10) = 141$$

$$15x + 12(10 - x) = 141$$

$$(15+12)x = 141$$

$$15x + 12y = 141$$

Which is the correct equation?

15x+12(10-x)=141

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

Show how you figured it out and show that you have tested your answers to see they are correct.

Number who had three-course meals

Number who had two-course meals

3 .



Dinner Menu

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$$15.5=75$$
 $12.5=60$
 $12.3=36$

Number who had three-course meals

This problem gives you the chance to:

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T3

Dinner Menu

Three-course meal

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Page 3

Show how you figured it out and show that you have tested your answers to see they are correct.

Number who had three-course meals

Number who had two-course meals

7 3

T4

Dinner Menu

Three-course meal

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$$15x + 12(10 - x) = 141$$

$$\times (15 + 12)x = 141$$

$$15x + 12y = 141$$

Which is the correct equation?

15x+12x=141

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

Show how you figured it out and show that you have tested your answers to see they are correct.

15(5.20) +13

15x+12x=141 x=5.22

15(5.20)+13(5.20)=141

This problem gives you the chance to:

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T5

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$$15x + 12y = 141$$

Which is the correct equation?

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Show how you figured it out and show that you have tested your answers to see they are correct.

$$\begin{array}{c}
 15x + 12(10 - x) = 141 \\
 15x + 120 - 12x = 141 \\
 - 12x \\
 \hline
 3x + 120 = 141 \\
 - 120
 \end{array}$$

3x = 21

Number who had three-course means

Number who had two-course meals

3

S₁

Dinner Menu

Three-course meal

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Which is the correct equation?

$$15x + 12(10-x) = 141$$

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$$3.7 / 15(3)$$
 | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$ | $3.7 / 15(3)$

Number who had three-course meals

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Dinner Menu

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Two-course meal

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$$(15 + 12)x = 141$$

$$15x + 12y = 141$$

Which is the correct equation?

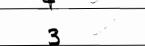
2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals. Show how you figured it out and show that you have tested your answers to see they are correct.

$$\frac{15x + 12(10-x) = 141}{-15x}$$

$$\frac{12(10-x) = 126x}{12}$$

$$\frac{-17 = 21x}{-17}$$

Number who had three-course meals



S3

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$$(15x + 12y = 141)$$

Which is the correct equation?

15x+12y=141

Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

Show how you figured it out and show that you have tested your answers to see they are correct.

Number who had three-course meals

This problem gives you the chance to:

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S4

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1. One of these equations can be solved to find the correct value of x.

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$$15x + 12(10 - x) = 141$$

$$(15 + 12)x = 141$$

Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

Which is the correct equation?

15x + 12y = 141

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

Show how you figured it out and show that you have tested your answers to see they are correct.

Number who had three-course meals

7

Number who had two-course meals

3

S5

Dinner Menu

Three-course meal

\$15

Two-course meal

\$12

See our delicious choices!

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$$15x + 12y = 141$$

Which is the correct equation?

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Number who had three-course meals

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S6

Ten friends go out for a meal.

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$$15x + 12(x - 10) = 141$$

$$15x + 12(10 - x) = 141$$

$$(15+12)x = 141$$

$$15x + 12y = 141$$

Which is the correct equation?

15X412X =141

Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

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This problem gives you the chance to:

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S7

Dinner Menu

Three-course meal

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$$15x + 12x = 141$$

$$15x + 12(x - 10) = 141$$

$$-15x + 12(10 - x) = 141$$

$$(15+12)x = 141$$

$$15x + 12y = 141$$

Which is the correct equation?

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

Show how you figured it out and show that you have tested your answers to see they are correct.

Number who had three-course meals

Number who had two-course meals

Meal Out

Dinner Menu

Three-course meal

\$15

Two-course meal

\$12

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Which is the correct equation?

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S9

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$$15x + 12y = 141$$

Which is the correct equation?

Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

Show how you figured it out and show that you have tested your answers to see they are correct.

(15+12)x=141

$$15x7 = 105$$
 $12x3 = 36$
 $+ 36$
 147
 $15x7 = 105$
 $+ 36$

Number who had three-course meals

S10

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The number of people who have three-course meals is x.

1. One of these equations can be solved to find the correct value of x.

$$\times 15x + 12x = 141$$

$$15x + 12(x - 10) = 141$$

$$\times (15x + 12(10 - x)) = 141$$

$$\times (15 + 12)x = 141$$

$$15x + 12y = 141$$

Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

Which is the correct equation?

2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

Show how you figured it out and show that you have tested your answers to see they are correct.

$$|5 \times +|2(|0-x)| = |4|$$

$$|5 \times +|20-|2x| = |4|$$

$$-|20-|2x|$$

$$|5 \times -|2| \times |3x = 2|$$

 $\frac{3X=21}{3}$ X=7

7*|5= 105 3*|2= 36

Number who had three-course meals