This problem gives you the chance to:

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

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?

Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

(15.7)+(12.3)=|4|

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 two-course meals

Number who had three-course meals



2

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?

(1)

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.

$$15.5=75 \qquad 6.7=105$$

$$12.5=60 \qquad 12.3=36$$

$$135 \qquad 141$$

$$15(7)+12(3)=141$$
 $x=7$
 $y=3$

Number who had three-course meals

$$\frac{7}{3}\sqrt{}$$

This problem gives you the chance to:

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T3

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?

15x+12(10-x)=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



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

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

$$15x + 12y = 141$$

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.

Number who had three-course meals

This problem gives you the chance to:

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T5

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?

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.

$$15x+12(10-x)=14$$

 $15x+120-12x=14$





2

Number who had three-course med

Number who had two-course meals





Meal Out

Dinner Menu

Three-course meal

\$15

Two-course meal

\$12

See our delicious choices!

This problem gives you the chance to:

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

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?

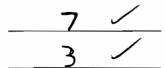
$$15x+12(10-x)=141$$

(1)

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.

28 /15* + 12(10-\$)=141 guess & check

Number who had three-course meals



This problem gives you the chance to:

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

S2

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

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.

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

$$12(10-x) = 126x$$

$$12 = 126x$$

$$12 = 21x$$

3 /

Number who had three-course meals

Number who had two-course meals



2

S3

This problem gives you the chance to:

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

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.

$$15x + 12x = 141$$

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

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

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

$$\widehat{15x + 12y = 141}$$

Which is the correct equation?

15x+12y=141

Dinner Menu

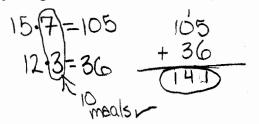
Three-course meal \$15

Two-course meal \$12

See our delicious choices!

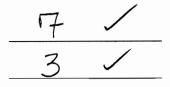
2. Solve the equation and find the number of people who had three-course meals and the number of people who had two-course meals.

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

Number who had two-course meals



(1)

This problem gives you the chance to:

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

S4

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.

$$15x + 12x = 141$$

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

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

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

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

$$15x + 12y = 141$$

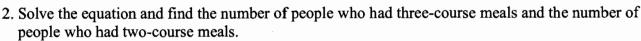
Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

Which is the correct equation?

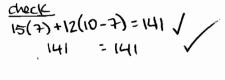


15(2)+12(10-2)=141

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



2

S5

This problem gives you the chance to:

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

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?

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.

(1)

Number who had three-course meals

This problem gives you the chance to:

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

S6

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?

15×412× =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





Meal Out

This problem gives you the chance to:

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

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.

$$15x + 12x = 141$$

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

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

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

$$15x + 12y = 141$$

Dinner Menu

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

Which is the correct equation?

(1)

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:

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

S8

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?

Three-course meal \$15

Two-course meal \$12

See our delicious choices!

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

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.

(1)

2

Number who had three-course meals



S9

This problem gives you the chance to:

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

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?

Dinner Menu

Three-course meal \$15

Two-course meal \$12

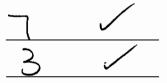
See our delicious choices!

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 ×

+ 3/4 - 1/41



(1)

Number who had three-course meals

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

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

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

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

$$15x + 12y = 141$$

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.

> 15x+12(10-x)=141 15x +120 -12x =141 -120 -120 $15x-12\times \big| 3x=2$

Number who had three-course meals

Number who had two-course meals



Three-course meal \$15

Two-course meal \$12

See our delicious choices!

