# Math Practice - Grade 7

## M6 Equations and inequalities - Word problems leading to equations

M6 7.EE.3, 7.EE.4, 7.EE.4a, 7.EE.4b

Name: _____ Date: _____

Read the story. Write the value of x in the box.

**Example: Sara earns 3 per hour and already has 1. She wants 16. How many hours must she work? x = hours**

How: Name what x stands for, then match each phrase to a term. Solve by undoing the operations in reverse order, and check the answer in the story.

$3x + 1 = 16, x =$ 5

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**1** **A garden has 2 rows with x + 2 plants in each row. There are 14 plants in all. What is x? x = plants**

$2(x + 2) = 14, x =$ ☐

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**2** **Each of 6 boxes holds x + 16 pencils. There are 138 pencils in all. What is x? x = pencils**

$6(x + 16) = 138, x =$ ☐

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**3** **A plumber charges a 18 call out fee plus 5 per hour. The bill is 33. How many hours did the job take? x = hours**

$5x + 18 = 33, x =$ ☐

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Name: _____ Date: _____

Read the story. Write the value of x in the box.

**Example: A rectangle has width 3 and length x + 17. Its area is 57. What is x? x = length part**

How: Name what x stands for, then match each phrase to a term. Solve by undoing the operations in reverse order, and check the answer in the story.

$3(x + 17) = 57, x =$ 2

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**1** **A plumber charges a 7 call out fee plus 8 per hour. The bill is 71. How many hours did the job take? x = hours**

$8x + 7 = 71, x =$ ☐

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**2** **Sara earns 5 per hour and already has 7. She wants 37. How many hours must she work? x = hours**

$5x + 7 = 37, x =$ ☐

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**3** **Leo saves 5 every week and already has 15 saved. He wants 25. How many weeks must he save? x = weeks**

$5x + 15 = 25, x =$ ☐

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M6 7.EE.3, 7.EE.4, 7.EE.4a, 7.EE.4b

Name: _____ Date: _____

Read the story. Write the value of x in the box.

**Example: Leo saves 3 every week and already has 3 saved. He wants 30. How many weeks must he save? x = weeks**

How: Name what x stands for, then match each phrase to a term. Solve by undoing the operations in reverse order, and check the answer in the story.

$3x + 3 = 30, x =$ 9

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**1** **A plumber charges a 1 call out fee plus 8 per hour. The bill is 49. How many hours did the job take? x = hours**

$8x + 1 = 49, x =$ ☐

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**2** **Tickets cost 4 each, plus a 6 booking fee. The total is 34. How many tickets were bought? x = tickets**

$4x + 6 = 34, x =$ ☐

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**3** **Leo saves 9 every week and already has 9 saved. He wants 81. How many weeks must he save? x = weeks**

$9x + 9 = 81, x =$ ☐