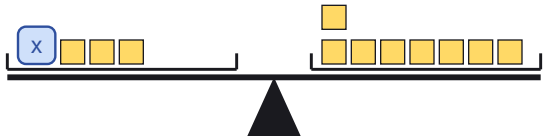
Name: _____ Date: _____

One-Step Equations

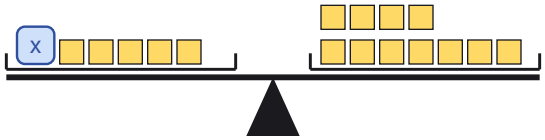
Grade 6 • 36 questions • Part A: each balance is level. Write the equation, then find x (the weight of one bag)

1.



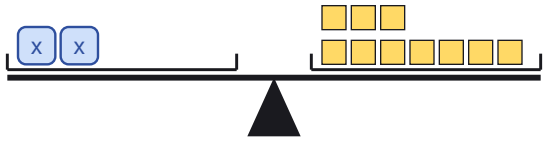
Equation: _____ x = _____

2.



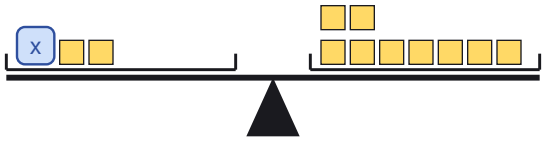
Equation: _____ x = _____

3.



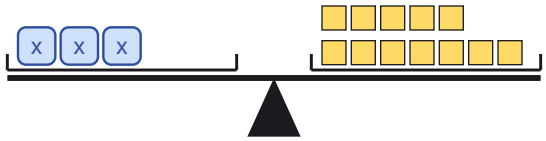
Equation: _____ x = _____

4.



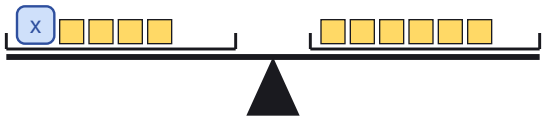
Equation: _____ x = _____

5.



Equation: _____ x = _____

6.



Equation: _____ x = _____

Part B • Solve. Undo the operation by doing the opposite to both sides

7. x + 16 = 29 x = _____

8. x − 5 = 8 x = _____

9. 4x = 28 x = _____

10. x ÷ 7 = 6 x = _____

11. x + 7 = 26 x = _____

12. x − 4 = 10 x = _____

13. 6x = 54 x = _____

14. x ÷ 5 = 5 x = _____

15. x + 11 = 29 x = _____

16. x − 8 = 10 x = _____

17. 6x = 48 x = _____

18. x ÷ 4 = 3 x = _____

19. x + 19 = 22 x = _____

20. x − 11 = 2 x = _____

Name: _____ Date: _____

One-Step Equations

Part C • Decimals and fractions work the same way • Part D: write an equation for each story, then solve it

21. x + 2.5 = 7 x = _____

22. x − 1.2 = 3.8 x = _____

23. 4x = 10 x = _____

24. x ÷ 2 = 3.5 x = _____

25. x + 3/4 = 2 x = _____

26. (1/2)x = 9 x = _____

27. 0.5 + x = 4 x = _____

28. 10x = 3 x = _____

Part D • Write an equation with a letter for the unknown, then solve it

29. Sam had some stickers. He got 12 more and now has 31. How many did he have at first?
Answer: _____

30. A pack of 6 pens costs $9. How much is one pen?
Answer: _____

31. After spending $14, Mia has $26 left. How much did she start with?
Answer: _____

32. A rope is cut into 4 equal pieces, each 2.5 m long. How long was the rope?
Answer: _____

33. The temperature rose 9 degrees to 23 degrees. What was it before?
Answer: _____

34. A class of 28 children sits in equal rows of 7. How many rows?
Answer: _____

35. A book costs $3 more than a pen. The book costs $11. How much is the pen?
Answer: _____

36. Half of a number is 15. What is the number?
Answer: _____

Tip: check every answer by putting it back in. If x = 7 in x + 5 = 12, then 7 + 5 = 12 is true.

Answer Key — One-Step Equations

1. $x + 3 = 8$; $x = 5$
2. $x + 5 = 11$; $x = 6$
3. $2x = 10$; $x = 5$
4. $x + 2 = 9$; $x = 7$
5. $3x = 12$; $x = 4$
6. $x + 4 = 6$; $x = 2$
7. 13
8. 13
9. 7
10. 42
11. 19
12. 14
13. 9
14. 25
15. 18
16. 18
17. 8
18. 12
19. 3
20. 13
21. 4.5
22. 5
23. 2.5
24. 7
25. 1 1/4
26. 18
27. 3.5
28. 0.3
29. $s + 12 = 31$, $s = 19$
30. $6p = 9$, $p = \$1.50$
31. $m - 14 = 26$, $m = \$40$
32. $r \div 4 = 2.5$, $r = 10$ m
33. $t + 9 = 23$, $t = 23 - 9 = 14$
34. $7r = 28$, $r = 4$
35. $p + 3 = 11$, $p = \$8$
36. $n \div 2 = 15$, $n = 30$