

6.EE.7 — Writing & Solving Equations: Real-World Practice

Mixed Operations • Grade 6 • CCSS 6.EE.7

Name: _____

Date: _____

Read each word problem, write an equation of the form $x + p = q$ or $px = q$, and solve for x .

1. Mia had some stickers. After her friend gave her 14 more stickers, she had 31 stickers in total. How many stickers did Mia start with?

2. A baker made some muffins and arranged them equally onto 6 trays. Each tray held 8 muffins. How many muffins did the baker make in all?

3. Carlos saved some money over the summer. He then spent \$23 on a book, leaving him with \$45. How much money did Carlos save?

4. A school ordered some boxes of pencils. Each box contains 12 pencils. If the school received 108 pencils in total, how many boxes were ordered?

5. Lily collected canned goods for a food drive. After donating 37 cans, she had 19 cans left. How many cans did Lily start with?

6. A rope is cut into 8 equal pieces. Each piece is 9 feet long. What was the total length of the rope before it was cut?

7. Jordan scored some points in a video game. He then earned 55 more points and finished with 120 points. How many points did Jordan have before earning the extra points?

8. A farmer planted rows of corn. If he planted 7 seeds in each row and used 91 seeds in total, how many rows did he plant?
9. Sofia had some hair ribbons. After losing 16 of them, she had 24 ribbons left. How many ribbons did Sofia have originally?
10. A group of students equally shared the cost of a class gift. If each of the 9 students paid \$7, what was the total cost of the gift?
11. Marcus read some pages of his book on Monday. On Tuesday he read 28 more pages and finished at page 95. How many pages did Marcus read on Monday?
12. A movie theater sold tickets for \$11 each. At the end of the day, the theater collected \$242 from ticket sales. How many tickets were sold?
13. Emma baked some cookies for a party. She gave away 45 cookies, and 30 cookies remained. How many cookies did Emma bake?
14. A rectangular garden has a length of 15 feet. If the area of the garden is 135 square feet, what is the width of the garden?
15. Tyler had some trading cards. His older brother gave him 38 more cards, and now Tyler has 102 cards. How many cards did Tyler have before?
16. A delivery driver made an equal number of stops each hour for 5 hours. If the driver made 60 stops in total, how many stops did the driver make each hour?

17. Ava is saving up to buy a bicycle that costs \$84. She has already saved \$29. How much more money does Ava need to save?
18. A science teacher divided 96 students equally into lab groups of 8 students each. How many lab groups were formed?
19. Kevin had some baseball cards. After trading away 22 cards, he had 47 cards left. How many cards did Kevin have before the trade?
20. A chef uses 4 cups of flour for each batch of bread. If the chef used 52 cups of flour in one week, how many batches of bread did the chef make?
21. Nina walked some miles on Saturday. She walked 6 more miles on Sunday and covered a total of 19 miles over the weekend. How many miles did Nina walk on Saturday?
22. A school store sells notebooks for \$3 each. A student spent \$27 on notebooks. How many notebooks did the student buy?

Answer Key

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|----------------|----------------|-----------------|
| 1. 17 stickers | 9. 40 ribbons | 17. \$55 |
| 2. 48 muffins | 10. \$63 | 18. 12 groups |
| 3. \$68 | 11. 67 pages | 19. 69 cards |
| 4. 9 boxes | 12. 22 tickets | 20. 13 batches |
| 5. 56 cans | 13. 75 cookies | 21. 13 miles |
| 6. 72 feet | 14. 9 feet | 22. 9 notebooks |
| 7. 65 points | 15. 64 cards | |
| 8. 13 rows | 16. 12 stops | |