

Grade 3 - Two-Step Word Problems and Patterns - Test

Common Core 3.OA.D.8, 3.OA.D.9 · maths-pdf.fr/en/

Name: _____ Class: _____ Date: ____/____/____

This **two step problems test** for 3rd Grade covers two-step word problems and patterns (Common Core 3.OA.D.8, 3.OA.D.9), with a free PDF to print.

This 45-minute test has 9 questions and is worth 20 points. It covers two-step word problems with a letter, estimation, and number patterns (3.OA.D.8, 3.OA.D.9). Show the steps for every problem. Estimates should use rounding.

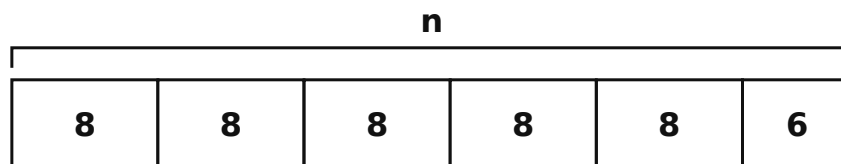
Time and points

About this test

- Grade: Grade 3
- Chapter: Two-Step Word Problems and Patterns
- Standards: 3.OA.D.8, 3.OA.D.9
- Time: 45 minutes
- Total: 20 points

Two step problems test: questions

Question 1 - Tape diagram equation [2 pts]



Five boxes of 8 markers and 6 loose markers.

- Write one equation with the letter n for the total. (1 point)
- Find n . (1 point)

Question 2 - Juice boxes [2 pts]

Priya buys 6 packs with 4 juice boxes in each pack. Her team drinks 9 juice boxes. How many juice boxes j are left?

Question 3 - Library books [2 pts]

A library shelf holds 245 books. The librarian adds 130 more books and then lends out 85 books. How many books b are on the shelf now?

Question 4 - Estimation [2 pts]

- Round each number to the nearest ten to estimate $58+33+19$. (1 point)
- Marcus says that $4 \times 53 = 312$. Use an estimate to explain why this is not reasonable. (1 point)

Question 5 - Number pattern [2 pts]



A number pattern.

- Write the rule. (1 point)
- Write the next two numbers. (1 point)

Question 6 - Chart and parity [2 pts]

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Multiples of 3 are shaded.

- Write the next two shaded numbers if the chart kept going past 30. (1 point)
- Is $9+7$ even or odd? Explain. (1 point)

Question 7 - Unknown subtracted [3 pts]

Aisha has 7 bags with 6 stickers in each bag. She gives away some stickers and keeps 30.

- Write an equation with the letter g for the stickers she gives away. (1 point)
- Find g . (2 points)

Question 8 - Reading pages [3 pts]

120		
28	35	p

The whole book has 120 pages.

Jamal reads 28 pages on Monday and 35 pages on Tuesday. The book has 120 pages. How many pages p are left? Write an equation and solve it.

Question 9 - Cones at practice [2 pts]

A coach puts 45 cones equally at 5 stations. Then she adds 4 more cones at each station. How many cones c are at each station now?

Key facts behind this two step problems test

Key facts

- A two-step problem has a hidden question that is solved first.
- A letter such as m stands for the unknown number in an equation.
- Rounding to the nearest 10 gives a quick estimate to check an answer.
- An arithmetic pattern follows a rule such as add 7 each time.
- Odd + odd = even, even + even = even, even + odd = odd.

How to use this two step problems test

Time yourself: the test is designed for an average student in 45 minutes. Answer the questions you are sure of first, then come back to the longer ones and check your units.