



EXAMPLE OUTPUT FOR AI PROMPT:

Student Worksheet and Practice Activity

This is an example of what our **AI Prompt for Student Worksheets & Practice Activities** can generate for you.

WORKSHEET AND PRACTICE ACTIVITY

Division Detective: Equal Groups and Sharing

Name: _____ Date: _____

Instructions for Students:

Read each question carefully. Use drawings, manipulatives, or mental math to help you solve division problems. Show your work when asked. Choose the best answer for multiple choice questions and write complete answers for short answer questions.

Part A: Multiple Choice (*Circle the letter of the correct answer*)

1. Maria has 12 stickers. She wants to share them equally among 3 friends. How many stickers will each friend get?

- a) 3 stickers
- b) 4 stickers
- c) 5 stickers
- d) 6 stickers

2. Which division equation matches this picture? [8 circles arranged in 2 groups of 4]

- a) $8 \div 4 = 2$
- b) $8 \div 2 = 4$
- c) $8 \div 1 = 8$
- d) $4 \div 2 = 2$

3. There are 15 apples. The teacher puts 5 apples in each basket. How many baskets are needed?

- a) 2 baskets
- b) 3 baskets
- c) 4 baskets

- d) 5 baskets

4. What is $18 \div 6$?

- a) 2
 - b) 3
 - c) 4
 - d) 12
-

Part B: Fill-in-the-Blank (*Write the correct number in each blank*)

5. $20 \div 4 =$ _____

6. $24 \div$ _____ $= 8$

7. _____ $\div 7 = 5$

8. If 21 cookies are shared equally among 7 children, each child gets _____ cookies.

Part C: Matching (*Draw a line to connect each word problem with its answer*)

Word Problems: Answers:

- 9. 16 pencils in groups of 4 6
 - 10. 30 stickers shared among 5 kids 4
 - 11. 36 books put into 6 boxes 3
 - 12. 18 toys divided into groups of 6 5
-

Part D: Short Answer (*Show your work and explain your thinking*)

13. Draw a picture to solve: $14 \div 2 =$ _____

Show your drawing here:

Answer: _____

14. The cafeteria has 28 juice boxes. Each table gets 4 juice boxes. How many tables can get juice boxes?

Show your work:

Answer: _____ tables

15. Create your own division word problem using the numbers 24 and 8. Then solve it.

Your word problem:

Your solution:

ANSWER KEY

Part A: Multiple Choice

1. b) 4 stickers
2. b) $8 \div 2 = 4$
3. b) 3 baskets
4. b) 3

Part B: Fill-in-the-Blank

5. $20 \div 4 = 5$
6. $24 \div 3 = 8$
7. $35 \div 7 = 5$
8. If 21 cookies are shared equally among 7 children, each child gets **3** cookies.

Part C: Matching

9. 16 pencils in groups of 4 → **4**
10. 30 stickers shared among 5 kids → **6**
11. 36 books put into 6 boxes → **6**
12. 18 toys divided into groups of 6 → **3**

Part D: Short Answer

- 13.** Drawing should show 14 objects arranged in 2 equal groups of 7, or 7 groups of 2.

Answer: 7

- 14.** $28 \div 4 = 7$ (Students may show grouping of 28 into groups of 4, or counting by 4s)

*Answer: **7 tables***

- 15.** Sample responses:

- "There are 24 cupcakes to put in boxes of 8. How many boxes are needed?" Answer: 3 boxes
 - "24 students form teams of 8. How many teams are there?" Answer: 3 teams
 - "I have 24 stickers and give 8 to each friend. How many friends get stickers?" Answer: 3 friends
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Teacher Notes:

- Questions progress from basic recall to application and creation
- Visual learners benefit from drawing opportunities in questions 13-15
- English learners supported through context clues and familiar scenarios
- Problems use numbers within grade-level expectations (Colorado 3rd grade standards)
- Allow use of manipulatives for students who need concrete support

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