

Equal Groups Quest

Solve with multiplication and division.

GRADE 3 • 3.OA.A

CCSS.Math.Content.3.OA.A "Represent and solve problems involving multiplication and division."

NAME _____

DATE _____

EQUAL GROUPS

Multiplication finds the total in equal groups. Division splits a total into equal groups or tells how many equal groups can be made. Use a multiplication fact to check a division answer.

WORKED EXAMPLE

Find the total in 7 groups of 8.

1. 7 groups of 8 means 7×8 .

2. $7 \times 8 = 56$.

3. The total is 56.

Answer: 56

PRACTICE 6 problems

1 $3 \times 5 = \underline{\quad}$

ANSWER _____

2 $18 \div 3 = \underline{\quad}$

ANSWER _____

3 There are 4 bags with 3 marbles in each bag. How many marbles are there?

ANSWER _____

4 20 pencils are shared equally among 4 tables. How many pencils does each table get?

ANSWER _____

5 $\underline{\quad} \times 6 = 30$

ANSWER _____

6 $27 \div 9 = \underline{\quad}$

ANSWER _____

APPLY IT Show your work

1 At recess, 5 teams have 4 beanbags each. How many beanbags are there altogether?

WORK SPACE

ANSWER _____

2 The library puts 27 books equally on 3 carts. How many books are on each cart?

WORK SPACE

ANSWER _____

CHALLENGE One step up

CHALLENGE

A game club has 3 teams with 4 players on each team. Each player earns 5 points. How many points do all the players earn? Explain your reasoning with equations.

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	$3 \times 5 = \underline{\quad}$	15
2	$18 \div 3 = \underline{\quad}$	6
3	There are 4 bags with 3 marbles in each bag. How many marbles are there?	12 marbles
4	20 pencils are shared equally among 4 tables. How many pencils does each table get?	5 pencils
5	$\underline{\quad} \times 6 = 30$	5
6	$27 \div 9 = \underline{\quad}$	3

PART 2 • APPLY IT

1. **20 beanbags** Multiply the number of teams by the number of beanbags on each team. $5 \times 4 = 20$.
2. **9 books** Divide the total number of books by the number of carts. $27 \div 3 = 9$.

CHALLENGE

60 points. $3 \times 4 = 12$ players, and $12 \times 5 = 60$ points.

Accept multiplication or division equations that match each situation. For the challenge, accept any clear explanation that finds 12 players and then 60 total points.