

Share It Out

Use division to describe equal groups.

GRADE 3 • NY-3.OA.2

NY-3.OA.2 "Interpret whole-number quotients of whole numbers."

NAME _____

DATE _____

WHAT A QUOTIENT TELLS

A quotient tells how many are in each equal group or how many equal groups can be made. Use multiplication to check your quotient: divisor $\times$ quotient = total.

WORKED EXAMPLE

18 stickers are shared equally among 3 friends. How many stickers does each friend get?



1. Write $18 \div 3 = \underline{\quad}$.
2. Think: $3 \times 6 = 18$.
3. Each friend gets 6 stickers.

Answer: 6 stickers each

PRACTICE 6 problems

- 1** 20 model cars are put into equal groups of 5. Complete: $20 \div 5 = \underline{\quad}$. The quotient tells how many $\underline{\quad}$.

ANSWER _____

- 2** 24 markers are shared equally among 6 students. Complete: $24 \div 6 = \underline{\quad}$. The quotient tells how many markers each student gets.

ANSWER _____

- 3** 28 apples are placed equally into 4 baskets. Complete: $28 \div 4 = \underline{\quad}$. The quotient tells how many apples are in each basket.

ANSWER _____

- 4** 35 books are put on shelves with 7 books on each shelf. Complete: $35 \div 7 = \underline{\quad}$. The quotient tells how many shelves are used.

ANSWER _____

- 5** 32 beads are used to make 8 equal necklaces. Complete: $32 \div 8 = \underline{\quad}$. The quotient tells how many beads are on each necklace.

ANSWER _____

- 6** 27 soccer cones are arranged in equal piles of 9. Complete: $27 \div 9 = \underline{\quad}$. The quotient tells how many piles are made.

ANSWER _____

APPLY IT Show your work

- 1** A game club has 42 game cards to share equally among 6 players. How many game cards does each player get?

6 equal player shares

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 42 game cards

ANSWER _____

- 2** The school garden has 48 seedlings. Gardeners put 8 seedlings in each tray. How many trays do they fill?

WORK SPACE

ANSWER _____

CHALLENGE One step up

Mina has 56 beads. She can make bracelets with 7 beads on each bracelet, or she can make 8 equal bracelets. Complete both equations and explain what each quotient means: $56 \div 7 = \underline{\quad}$ and $56 \div 8 = \underline{\quad}$.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	20 model cars are put into equal groups of 5. Complete: $20 \div 5 = \underline{\quad}$. The quotient tells how many $\underline{\quad}$.	$20 \div 5 = 4$. The quotient tells how many groups.
2	24 markers are shared equally among 6 students. Complete: $24 \div 6 = \underline{\quad}$. The quotient tells how many markers each student gets.	$24 \div 6 = 4$. Each student gets 4 markers.
3	28 apples are placed equally into 4 baskets. Complete: $28 \div 4 = \underline{\quad}$. The quotient tells how many apples are in each basket.	$28 \div 4 = 7$. Each basket has 7 apples.
4	35 books are put on shelves with 7 books on each shelf. Complete: $35 \div 7 = \underline{\quad}$. The quotient tells how many shelves are used.	$35 \div 7 = 5$. 5 shelves are used.
5	32 beads are used to make 8 equal necklaces. Complete: $32 \div 8 = \underline{\quad}$. The quotient tells how many beads are on each necklace.	$32 \div 8 = 4$. Each necklace has 4 beads.
6	27 soccer cones are arranged in equal piles of 9. Complete: $27 \div 9 = \underline{\quad}$. The quotient tells how many piles are made.	$27 \div 9 = 3$. 3 piles are made.

PART 2 • APPLY IT

- 7 game cards each** Divide 42 by 6. Since $6 \times 7 = 42$, each player gets 7 game cards.
- 6 trays** Divide 48 by 8 to find the number of equal trays. Since $8 \times 6 = 48$, they fill 6 trays.

CHALLENGE

$56 \div 7 = 8$, so Mina can make 8 bracelets with 7 beads each. $56 \div 8 = 7$, so each of 8 bracelets has 7 beads.

Accept equivalent unit wording, such as "4 groups" or "there are 4 groups." For the challenge, students must identify both quotients and connect each quotient to its grouping meaning.