

Fair Share Studio

Use equal groups to find each share.

GRADE 3 • TEKS 3.3.E

3.3.E "solve problems involving partitioning an object or a set of objects among two or more recipients using pictorial representations of fractions with denominators of 2, 3, 4, 6, and 8;"

NAME _____

DATE _____

EQUAL SHARES

When you share equally, every recipient gets the same number of objects or the same-sized piece. One equal share is 1 divided by the number of recipients.

WORKED EXAMPLE

15 buttons are shared equally among 3 children. How many buttons does each child get? What fraction of the set is one child's share?

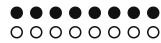


1. Split 15 buttons into 3 equal rows.
2. $15 \div 3 = 5$.
3. One row is 1 of 3 equal rows, or $1/3$.

Answer: Each child gets 5 buttons. One share is $1/3$ of the set.

PRACTICE 4 problems

- 1** 16 beads are shared equally between 2 artists. The shaded beads show one artist's share. How many beads does one artist get? What fraction of the set is one share?



ANSWER _____

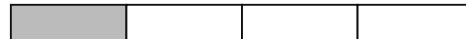
- 2** 24 bookmarks are shared equally among 6 readers. How many bookmarks does each reader get? What fraction of the set is one reader's share?

ANSWER _____

- 3** 32 paper clips are shared equally among 8 boxes. How many paper clips are in each box?

ANSWER _____

- 4** One paper strip is shared equally among 4 groups. What fraction of the strip does one group get?



ANSWER _____

APPLY IT Show your work

- 1** The game club shares 56 game cards equally among 8 players. How many cards does each player get? What fraction of the cards is one player's share?

8 players

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56 game cards

ANSWER _____

- 2** A garden club shares 28 seed packets equally among 4 teams. How many packets does each team get? What fraction of the packets is one team's share?

WORK SPACE

ANSWER _____

CHALLENGE One step up

A club has 48 keychains. It can share them equally among 6 teams or among 8 teams. Which plan gives each team more keychains? Explain how many more each team gets.

WORK SPACE AND ANSWER

PART 1 • PRACTICE

#	PROBLEM	ANSWER
1	16 beads are shared equally between 2 artists. The shaded beads show one artist's share. How many beads does one artist get? What fraction of the set is one share?	8 beads; $\frac{1}{2}$ of the set.
2	24 bookmarks are shared equally among 6 readers. How many bookmarks does each reader get? What fraction of the set is one reader's share?	4 bookmarks; $\frac{1}{6}$ of the set.
3	32 paper clips are shared equally among 8 boxes. How many paper clips are in each box?	4 paper clips.
4	One paper strip is shared equally among 4 groups. What fraction of the strip does one group get?	$\frac{1}{4}$

PART 2 • APPLY IT

- 7 cards; $\frac{1}{8}$ of the cards.** Divide 56 into 8 equal parts. Each part has 7 cards, and one part is $\frac{1}{8}$ of the set.
- 7 packets; $\frac{1}{4}$ of the packets.** Divide 28 by 4. One of the 4 equal team shares is $\frac{1}{4}$ of the set.

CHALLENGE

Sharing among 6 teams gives more. Each team gets 8 keychains instead of 6, so each gets 2 more keychains.

Accept equivalent wording for one equal share, such as "one out of 6 equal groups." Require both the number in each group and the fraction when both are requested.