Names (pair) _____ Date _____

# Sharing the Remainder

Example



7 pizzas are shared between 2 children. Each gets 3 whole pizzas and one is left over.

We share the last pizza too: each child gets another half.

$7 \div 2 = 3$ and remainder $1 = 3\frac{1}{2}$

$= \frac{7}{2}$

**Remember**

When we share something that can be cut, **we share the remainder too**. The remainder becomes the numerator and the divisor the denominator: 3 and remainder 1 → $3\frac{1}{2}$.

**1** ON YOUR OWN Divide and write the answer in three ways.

| Division | Quotient and remainder | Mixed number | Improper fraction |
|---|---|---|---|
| 7 ÷ 2 | ☐ and remainder ☐ | ☐ $\frac{\square}{2}$ | $\frac{\square}{2}$ |
| 11 ÷ 4 | ☐ and remainder ☐ | ☐ $\frac{\square}{4}$ | $\frac{\square}{4}$ |
| 13 ÷ 5 | ☐ and remainder ☐ | ☐ $\frac{\square}{5}$ | $\frac{\square}{5}$ |
| 17 ÷ 3 | ☐ and remainder ☐ | ☐ $\frac{\square}{3}$ | $\frac{\square}{3}$ |
| 23 ÷ 6 | ☐ and remainder ☐ | ☐ $\frac{\square}{6}$ | $\frac{\square}{6}$ |

Names (pair) _____ Date _____

**2** IN PAIRS **Do we share the remainder?** Read the story, work it out and circle what happens to the remainder. Explain to each other.

13 pizzas are shared among 4 friends. **share the remainder** / **the remainder stays**

Answer: _____

13 children ride in cars with 4 seats. **share the remainder** / **the remainder stays**

Answer: _____

A 22 m ribbon is cut into 5 equal pieces. **share the remainder** / **the remainder stays**

Answer: _____

22 eggs are packed in boxes of 6. **share the remainder** / **the remainder stays**

Answer: _____

**3** ON YOUR OWN In the app choose **Division** → **Into equal parts** and share the objects. How many are left over? If they were cakes, how would we share the remainder too?

$9 \div 4 = \square$ and remainder $\square$

$= \square \frac{\square}{4}$

$14 \div 3 = \square$ and remainder $\square$

$= \square \frac{\square}{3}$

$19 \div 5 = \square$ and remainder $\square$

$= \square \frac{\square}{5}$

$11 \div 2 = \square$ and remainder $\square$

$= \square \frac{\square}{2}$

**The Set of Objects app · otooly.com/set-of-objects**

In the app the remainder appears in the orange tray. On paper we share it into equal parts.

**4** ON YOUR OWN **Exit card.** $10 \div 3 = \square$ and remainder $\square = \square \frac{\square}{3} = \frac{\square}{3}$