

Solving word problems: rounding remainders

Solve division problems including answers that involve rounding remainders up or down.



Challenge 1

Write the answers to these division calculations. Remember to record any remainders.

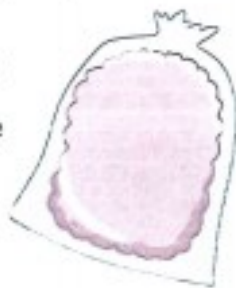
- | | | | | | | | |
|---|-------------|---|-------------|---|-------------|---|-------------|
| a | $76 \div 9$ | b | $48 \div 5$ | c | $67 \div 8$ | d | $58 \div 6$ |
| e | $86 \div 8$ | f | $59 \div 9$ | g | $67 \div 7$ | h | $76 \div 9$ |
| i | $37 \div 4$ | j | $88 \div 9$ | k | $52 \div 6$ | l | $39 \div 7$ |



Challenge 2

Find the answer to each of the word problems. If there is a remainder think carefully about whether it needs to be rounded up or down to fit the question.

- The sandwich stall made 382 sandwiches. They were packed into boxes, each containing 6 sandwiches. How many full boxes could be made?
- In one day 587 people went on the ghost train. The train holds 8 people. How many times did the train need to run?
- Candy floss costs £3 per bag. A total of 265 bags were sold in one day. How much money was taken?
- The rollercoaster seats 9 people. A total of 123 people are waiting in the queue. How many times does the rollercoaster need to run before everyone in the queue has had a ride?



- The Smythe family has £472 to spend on rides. All rides cost £5. How many ride tickets can they buy?
- Doughnuts are sold in packs of 4. There are 673 doughnuts to be packaged. How many packs can be made?
- At the end of the day the hot dog stall counted £543 in the till. Hot dogs cost £4 each. How many had they sold?
- Each dodgem car holds 2 people. In one day 435 people rode in the dodgem cars. How many dodgem car rides were made?
- A family of 2 adults and 4 children go to the fairground. Entrance to the fairground costs £43 for adults and £26 for children. The family has allowed £180 for entrance fees. Do they have enough money?



Challenge 3

Write your own word problems that involve rounding up or down for each of these calculations. The arrow \uparrow means to round the answer up. The arrow \downarrow means to round the answer down. Swap them with a partner to solve.

- | | | | |
|---|-------------------------|---|-------------------------|
| a | $263 \div 4 \uparrow$ | b | $468 \div 5 \downarrow$ |
| c | $669 \div 8 \downarrow$ | d | $321 \div 6 \uparrow$ |
| e | $300 \div 7 \uparrow$ | f | $558 \div 7 \uparrow$ |
| g | $729 \div 6 \downarrow$ | h | $198 \div 4 \downarrow$ |

