

Year 4: Division with remainders: answers

Year 4 - Short Multiplication and Short Division - Lesson 4.5

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-4/ch04-multiplying-dividing/division-with-remainders/

Exercise 4E Division with remainders Non-calculator

1 Use the bus stop method. Write each answer with a remainder.

(a) $29 \div 4 =$

Answer: 7 remainder 1

(b) $47 \div 5 =$

Answer: 9 remainder 2

(c) $38 \div 6 =$

Answer: 6 remainder 2

(d) $59 \div 8 =$

Answer: 7 remainder 3

(e) $73 \div 7 =$

Answer: 10 remainder 3

(f) $95 \div 9 =$

Answer: 10 remainder 5

2 Use the bus stop method. You will need to carry.

(a) $83 \div 6 =$

Answer: 13 remainder 5

(b) $91 \div 4 =$

Answer: 22 remainder 3

(c) $75 \div 8 =$

Answer: 9 remainder 3

(d) $68 \div 3 =$

Answer: 22 remainder 2

(e) $97 \div 7 =$

Answer: 13 remainder 6

(f) $52 \div 3 =$

Answer: 17 remainder 1

3 Use the bus stop method with three-digit numbers.

(a) $258 \div 4 =$

Answer: 64 remainder 2

(b) $485 \div 6 =$

Answer: 80 remainder 5

(c) $731 \div 5 =$

Answer: 146 remainder 1

(d) $962 \div 7 =$

Answer: 137 remainder 3

(e) $358 \div 3 =$

Answer: 119 remainder 1

(f) $570 \div 8 =$

Answer: 71 remainder 2

4 Find the missing number in each sentence.

(a) $47 \div 5 = 9$ remainder ?

Answer: 2

(b) $62 \div 8 = 7$ remainder ?

Answer: 6

(c) $53 \div 6 =$? remainder 5

Answer: 8

(d) $79 \div 9 =$? remainder 7

Answer: 8

5 How many are left over?

(a) A teacher has 53 crayons and puts 6 in each bag.

Answer: 5 crayons

(b) Tom has 100 marbles and puts 7 in each bag.

Answer: 2 marbles

(c) There are 85 children. They stand in teams of 9.

Answer: 4 children

6 How many full groups can be made?

(a) A baker puts 8 buns in each box. She has 75 buns. How many full boxes can she fill?

Answer: 9 boxes

(b) A rope is 90 cm long. Pieces of 7 cm are cut from it. How many whole pieces can be cut?

Answer: 12 pieces

- (c) A ticket costs 9 pounds. Aisha has 100 pounds. How many tickets can she buy?

Answer: 11 tickets

7 How many are **needed** so that everyone is included?

- (a) 70 children go to a match. A car holds 4 children. How many cars are needed?

Answer: 18 cars

- (b) 100 guests sit at tables of 6. How many tables are needed?

Answer: 17 tables

- (c) A book has 130 pages. Leo reads 8 pages each day. How many days does he need to finish the book?

Answer: 17 days

8 Share equally. Write how many each person gets and how many are left over.

- (a) 47 sweets are shared between 6 children.

Answer: 7 each, with 5 left over

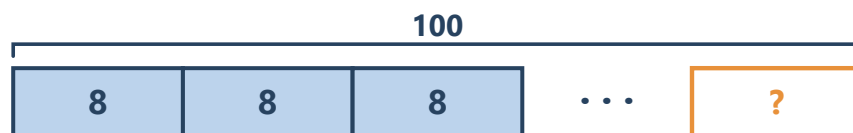
- (b) 83 cards are dealt to 4 players.

Answer: 20 each, with 3 left over

- (c) 95 marbles are put into 9 bags.

Answer: 10 each, with 5 left over

- 9** A ribbon is 100 cm long. Mia cuts it into pieces that are each 8 cm long. How many pieces does she cut, and how many centimetres of ribbon are left?



Answer: 12 pieces and 4 cm left over

- 10** A farmer packs 125 eggs into boxes of 6. Each full box is sold for £2. How much money does the farmer get for the full boxes?

Answer: £40

- 11** Mei says, " $52 \div 4 = 10$ remainder 2." Use multiplication to show that Mei is wrong. Then write the correct answer.

Answer: $52 \div 4 = 13$ (no remainder)

12 Think about dividing by 5.

- (a) Write all the remainders that are possible when you divide a number by 5.

Answer: 0, 1, 2, 3 or 4

- (b) Sam says, "I divided a number by 5 and got a remainder of 6." Explain why this cannot be right.

Answer: A remainder must be smaller than 5, so 6 is too big

- 13** Always, sometimes or never? When you divide an odd number by 2, the remainder is 1.

Answer: Always

- 14** I am thinking of a number between 20 and 40. When I divide it by 5 the remainder is 3. When I divide it by 4 the remainder is 1. What is my number?

Answer: 33

- 15** I think of a number and divide it by 6. The answer is 14 remainder 5. What number did I think of?

Answer: 89