

Year 5: Short division with exchanging: answers

Year 5 - Short Division and Remainders - Lesson 5.3

Answers. Final answers to the worksheet questions. Full step-by-step solutions for every question are free at websink.site/ks2-sats/maths/year-5/ch05-division/short-division-with-exchanging/

Exercise 5C Short division with exchanging

Non-calculator

1 Work out each division. There is nothing to carry.

(a) $68 \div 2 =$

Answer: 34

(b) $93 \div 3 =$

Answer: 31

(c) $66 \div 6 =$

Answer: 11

2 Work out each division. You will need to exchange.

(a) $64 \div 4 =$

Answer: 16

(b) $87 \div 3 =$

Answer: 29

(c) $96 \div 8 =$

Answer: 12

(d) $75 \div 5 =$

Answer: 15

3 Work out each division. Write your answers with a remainder.

(a) $58 \div 4 =$

Answer: 14 r 2

(b) $83 \div 6 =$

Answer: 13 r 5

(c) $71 \div 3 =$

Answer: 23 r 2

(d) $94 \div 7 =$

Answer: 13 r 3

4 Work out each division. These numbers have 3 digits.

(a) $936 \div 3 =$

Answer: 312

(b) $725 \div 5 =$

Answer: 145

(c) $616 \div 7 =$

Answer: 88

5 Work out each division. Exchange in both places.

(a) $456 \div 6 =$

Answer: 76

(b) $672 \div 8 =$

Answer: 84

(c) $735 \div 5 =$

Answer: 147

6 Work out each division. Give each answer with a remainder.

(a) $625 \div 4 =$

Answer: 156 r 1

(b) $874 \div 6 =$

Answer: 145 r 4

(c) $593 \div 7 =$

Answer: 84 r 5

(d) $999 \div 8 =$

Answer: 124 r 7

7 Mia is working out $534 \div 6$. Here is her working so far.

$$\begin{array}{r} 0 \\ 6 \overline{) 534} \\ \underline{5} \\ 3 \\ \underline{3} \\ 4 \\ \underline{4} \\ 0 \end{array}$$

(a) What does Mia write above the 3?

Answer: 8

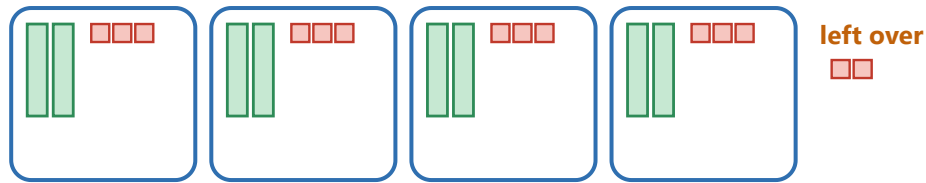
(b) What number does she carry to the ones column?

Answer: 5

(c) What is the final answer?

Answer: 89

- 8 The picture shows 94 shared between 4 groups using blocks.



- (a) How many tens and ones are in each group? What number is that?

Answer: 23

- (b) How many are left over?

Answer: 2

- (c) Write the division, with the remainder.

Answer: $94 \div 4 = 23 \text{ r } 2$

- 9 Work out the answer to each problem. The bar model will help.

- (a)

Amira has 138 stickers. She shares them equally between 6 friends. How many stickers does each friend get?

Answer: 23 stickers

- (b) A farmer has 375 apples. He packs them into bags of 5. How many bags does he fill?

Answer: 75 bags

- (c) A hall has 432 chairs in 8 equal rows. How many chairs are in each row?

Answer: 54 chairs

- 10 Mrs Patel buys 3 boxes with 84 pencils in each box. She shares all the pencils equally between 9 classes. How many pencils does each class get?

Answer: 28 pencils

- 11 Zoe has 437 stickers. She shares them equally between 7 children. How many stickers does each child get, and how many are left over?

- (a) How many stickers does each child get?

Answer: 62

- (b) How many stickers are left over?

Answer: 3

- 12 Jack works out $738 \div 6$ and gets 101. Is he correct? Explain what he has done wrong.

Answer: No. The correct answer is 123. Jack did not carry the remainders.

- 13 Always, sometimes or never?

- (a) When you divide a number by 6, the remainder can be 6.

Answer: Never

(b) A 3-digit number divided by 2 gives a 2-digit answer.

Answer: Sometimes

14 Which is the odd one out? Explain how you know. $47 \div 5$ $62 \div 5$ $37 \div 5$ $33 \div 5$

Answer: $33 \div 5$

15 Challenge! Each box stands for one missing digit. What digit goes in the box so that the number divides by 7 with no remainder? $3 \boxed{?} 4 \div 7$

Answer: 6