Worksheet - Addition and subtraction with 3-digit numbers

Year: Year 3 · 20

Show your working.

Question 1

Question 1 – Adding in your head *(Section A · Practice)*

Work out each answer in your head. Write the answer only.

a. 346 + 30
b. 512 + 200
c. 278 + 5
d. 497 + 40
e. 605 + 95

Question 2

Question 2 – Subtracting in your head *(Section A · Practice)*

Work out each answer in your head.

a. 578 − 40
b. 842 − 300
c. 463 − 7
d. 700 − 50
e. 305 − 9

Question 3

Question 3 – Column addition *(Section A · Practice)*

Use the column method for each sum. Write the exchanges clearly.

a. 243 + 125
b. 367 + 214
c. 458 + 276
d. 389 + 457

Question 4

Question 4 – Column subtraction *(Section A · Practice)*

Use the column method for each subtraction. Check each answer with an addition.

a. 768 − 345
b. 523 − 168
c. 802 − 457
d. 640 − 283

Question 5

Question 5 – Estimate then calculate *(Section A · Practice)*

For each sum, first round to the nearest 100 to estimate. Then work out the exact answer.

a. 298 + 405
b. 612 − 389
c. 187 + 214
d. 796 − 408

Question 6

Question 6 – Missing numbers *(Section A · Practice)*

Use the inverse operation to find each missing number.

a. __ + 135 = 462
b. 280 + __ = 651
c. __ − 148 = 275
d. 704 − __ = 329

Question 7

Question 7 – The farm shop *(Section B · Real-life practice)*

Mr Green runs a farm shop. On Friday he sells 248 eggs. On Saturday he sells 319 eggs. On Sunday he sells 175 eggs.

a. How many eggs does he sell on Friday and Saturday together?
b. How many eggs does he sell over the three days?
c. He started the weekend with 800 eggs. How many are left?
d. How many more eggs did he sell on Saturday than on Sunday?

Question 8

Question 8 – The school trip bus *(Section B · Real-life practice)*

Two coaches take Year 3 to the zoo. Coach A carries 56 children. Coach B carries 49 children. A third coach carries 38 teachers and helpers.

a. How many children go on the two coaches?
b. How many people are there altogether, with the teachers and helpers?

c. The zoo gives a free ticket for every 100 people. How many people are left over?
d. Coach B has 60 seats. How many seats are empty?

Question 9

Question 9 – Pocket money and savings *(Section B · Real-life practice)*

Leila saves for a bike. The bike costs £215. She has already saved £128.

a. How much more must she save?
b. Her gran gives her £50. How much does she still need?
c. She then earns £25 for washing the car. How much does she still need?
d. How much has she saved in total after these gifts and earnings?

Question 10

Question 10 – Football season *(Section B · Real-life practice)*

The table shows the number of fans at three home matches of Riverside Rovers.

Match	Fans
First	324
Second	289
Third	356

a. How many fans came to the first two matches?
b. How many fans came in total?
c. How many more fans came to the third match than the second?
d. The stadium holds 1000 fans. How many empty seats were there for the first match?

Question 11

Question 11 – At the library *(Section B · Real-life practice)*

A school library has 465 fiction books and 238 non-fiction books. Some books are borrowed each week.

a. How many books does the library have altogether?
b. On Monday, 56 books are borrowed. How many remain on the shelves?
c. On Tuesday, 29 books are returned. How many are on the shelves now?
d. The librarian buys 100 more non-fiction books. How many non-fiction books are there now?

Question 12

Question 12 – Walking the coastal path *(Section B · Real-life practice)*

The Gwen family walk along a coastal path in three parts. The first part is 285 m, the second is 340 m and the third is 175 m.

a. How far do they walk in the first two parts?
b. How far is the whole path?
c. A signpost says the path is 1000 m long. How much further is it from the end of their walk?
d. How much longer is the second part than the third?

Question 13

Question 13 – Stickers and cards *(Section B · Real-life practice)*

Tom and Anya collect sticker cards. Tom has 187 cards. Anya has 235 cards.

a. Who has more cards and how many more?
b. How many cards do they have together?
c. They give 90 cards to a charity sale. How many are left?
d. Tom swaps 24 cards with Anya. Write the new number each has.

Question 14

Question 14 – The garden centre *(Section B · Real-life practice)*

A garden centre sells 124 daffodil bulbs, 207 tulip bulbs and 96 crocus bulbs in one week. It started the week with 600 bulbs.

a. How many daffodil and tulip bulbs are sold?
b. How many bulbs are sold in the week altogether?
c. How many bulbs are left?
d. Estimate the number sold by rounding each to the nearest 100. Is the exact answer close?

Question 15

Question 15 – Problem: the school fair *(Section C · Problem solving)*

The Year 3 stalls at the school fair took money all afternoon. The table shows the money taken. The class wants to raise £900 for a new playground.

Stall	Money taken
Cake	£236
Games	£187
Plants	£215

a. How much did the cake stall and the games stall take altogether?
b. How much money was raised in total?
c. How much more is needed to reach £900?

d. The headteacher adds £150 of her own. Is the target reached? Explain.

Question 16

Question 16 – Problem: the cinema *(Section C · Problem solving)*

A cinema has three screens. Screen 1 has 248 seats, Screen 2 has 176 seats and Screen 3 has 120 seats. On Saturday afternoon the cinema sells 315 tickets.

a. How many seats are there in the whole cinema?
b. How many seats stay empty?
c. The cinema wants to sell 500 tickets in the evening. How many more is that than the afternoon?
d. Zoe says "Screen 1 and Screen 3 together have fewer seats than Screens 1 and 2 together." Is she right?

Question 17

Question 17 – Problem: spot the mistakes *(Section C · Problem solving)*

Ravi does his homework. Check his work. If an answer is wrong, find his mistake and give the correct answer.

a. 346 + 278 = 514
b. 703 − 456 = 357
c. 219 + 481 = 700
d. 500 − 237 = 263

Question 18

Question 18 – Problem: a trip to the aquarium *(Section C · Problem solving)*

Year 3 at Oak Primary visit the aquarium. There are 3 classes: 28, 31 and 29 children. The aquarium holds 120 visitors in a tour slot.

a. How many children are there in all three classes?
b. How many places are left in the tour slot?
c. The 11 adults also join the tour. How many places are left now?
d. One class of 29 children is moved to a later slot. How many children are now in this slot? Show your working.

Question 19

Question 19 – Problem: distances on a trip *(Section C · Problem solving)*

The table shows the distance (in km) between four towns on a road. Use it to answer the questions. Ali drives from Ashford to Brinton, then to Carlton.

Route	Distance (km)
Ashford to Brinton	126
Brinton to Carlton	258
Ashford to Carlton (direct)	297

a. How far does Ali drive from Ashford to Carlton through Brinton?
b. The direct road from Ashford to Carlton is 297 km. How much shorter is it?
c. Ali returns the same way. How far does he drive in total?
d. His petrol tank lets him drive 800 km. How much further can he go?

Question 20

Question 20 – Challenge: digit cards *(Section D · Challenge)*

Use the digit cards 1, 2, 3, 4, 5 and 6 once each to make two 3-digit numbers. You want the sum of the two numbers to be as large as possible.

a. Which two numbers do you make? Explain your thinking.
b. Find the largest possible sum.
c. Now find the smallest possible sum.