Worksheet - Addition and subtraction to 100

Year: Year 2 · 21

Show your working.

Question 1

Question 1 – Add tens and ones *(Section A · Practice)*

Use partitioning to work out each sum. Show the tens step and the ones step.

a. 23 + 14
b. 45 + 32
c. 58 + 21
d. 36 + 40
e. 64 + 25

Question 2

Question 2 – Bridge through 10 *(Section A · Practice)*

Use bridging through 10 to work out each sum.

a. 28 + 5
b. 47 + 6
c. 69 + 4
d. 35 + 8
e. 76 + 9

Question 3

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

Set out each addition in columns and work out the answer. Say when you carry a ten.

a. 34 + 25
b. 47 + 38
c. 56 + 27
d. 19 + 64
e. 38 + 49

Question 4

Question 4 – Take away *(Section A · Practice)*

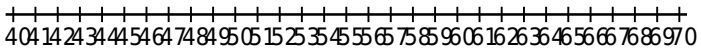
Work out each subtraction. Count back the tens first.

a. 68 − 23
b. 75 − 41
c. 92 − 30
d. 57 − 6
e. 83 − 28

Question 5

Question 5 – Find the difference *(Section A · Practice)*

Count up on the number line to find the difference between each pair of numbers.



a. 43 and 58
b. 37 and 52
c. 61 and 70
d. 45 and 49

Question 6

Question 6 – Inverse and fact families *(Section A · Practice)*

Write the two inverse facts for each addition. Use them to check the sum.

a. 26 + 33 = 59
b. 45 + 17 = 62
c. 38 + 44 = 82

Question 7

Question 7 – Dog biscuits for Pip *(Section B · Real-life practice)*

Pip the puppy has a tin with 34 dog biscuits. Grandad brings another bag with 25 biscuits and Dad adds 18 more from the cupboard. Over the weekend Pip eats 29 biscuits and buries 6 in the garden.

a. How many biscuits are in the tin after Grandad pours in his bag?
b. How many biscuits are in the tin once Dad has added his 18?
c. How many biscuits are left after the weekend, when Pip has eaten 29?
d. How many biscuits are left after Pip buries 6 as well?

Question 8

Question 8 – The bakery morning *(Section B · Real-life practice)*

At the bakery, the baker makes 46 white rolls and 38 brown rolls before the shop opens. By lunchtime the shop has sold 52 rolls. In the afternoon the baker makes 15 more rolls.

Time	What happens	Rolls
Morning	White rolls baked	46
Morning	Brown rolls baked	38
Lunchtime	Rolls sold	52
Afternoon	Extra rolls baked	15

a. How many rolls are baked in the morning?
b. How many rolls are left at lunchtime?
c. How many rolls are there after the afternoon baking?
d. The shop needs 60 rolls for the evening rush. Are there enough? Show how many more or fewer.

Question 9

Question 9 – Stickers in the school *(Section B · Real-life practice)*

The school library gives out reading stickers. In Year 1 children collect 27 stickers, in Year 2 they collect 45 stickers, and in Year 3 they collect 19 stickers. A box of 100 stickers is bought for the library at the start of term.

a. How many stickers do Year 1 and Year 2 collect together?
b. How many stickers do all three years collect?
c. How many stickers are left in the box of 100?
d. Year 4 collects 12 more stickers than Year 2. How many stickers does Year 4 collect?

Question 10

Question 10 – Trip to the zoo *(Section B · Real-life practice)*

Class 2 go to the zoo. There are 29 girls and 26 boys in the class. Four teachers and 7 parents also come to help. The coach has 80 seats. At the zoo, a group of 18 children go to see the penguins first.

a. How many children are on the trip?
b. How many people come on the trip altogether, with the teachers and parents?
c. How many seats on the coach are empty?
d. How many children are not at the penguins at that moment?

Question 11

Question 11 – Playing football *(Section B · Real-life practice)*

Two Year 2 football teams have a goal-scoring challenge in the playground. The Red team scores 14, 23 and 19 goals in three games. The Blue team scores 31, 28 and 15 goals. The winner has the most goals.

Game	Red goals	Blue goals
1	14	31
2	23	28
3	19	15

a. How many goals does Red score altogether?
b. How many goals does Blue score altogether?
c. Which team wins and by how many goals?

Question 12

Question 12 – Fruit at the market *(Section B · Real-life practice)*

At the market, Mrs Khan has 63 apples, 28 pears and 37 plums on her stall. In the morning she sells 24 apples and 9 pears. In the afternoon a lorry delivers 30 more plums.

a. How many apples are left after the morning?
b. How many pears are left after the morning?
c. How many plums are on the stall after the delivery?
d. How many pieces of fruit are on the stall at the end of the day?

Question 13

Question 13 – Pocket money *(Section B · Real-life practice)*

Ella gets 50p pocket money each week and does jobs for extra money. In one week she gets 35p for washing the car, 25p for tidying her room and 20p for watering the plants. She saves some in a money jar that already has 85p inside.

a. How much does Ella earn from jobs in the week?
b. How much money does she get in total, with her pocket money?
c. She puts 90p of it in the jar. How much money is in the jar now?
d. The jar can hold 200p. How much more room is there in the jar?

Question 14

Question 14 – Reading a book *(Section B · Real-life practice)*

Sam is reading a storybook with 96 pages. He reads 28 pages on Monday and 35 pages on Tuesday. On Wednesday he reads 17 pages.

a. How many pages has Sam read after Tuesday?
b. How many pages has Sam read after Wednesday?

c. How many pages are left to read?
d. Sam says, "I have read more than half the book." Is he right? Explain. Half of 96 is 48.

Question 15

Question 15 – Sports day scores *(Section C · Problem solving)*

At sports day, four houses collect points in three events. The table shows the points for each house. The house with the most points at the end wins the cup.

House	Running	Jumping	Throwing
Red	24	31	18
Blue	35	22	27
Green	28	29	30
Yellow	19	38	25

a. Work out the total points for each house.
b. Which house wins and which house comes last?
c. How many more points does the winner have than the house in last place?
d. Blue wants to beat Green. How many more points would Blue need to draw with Green, and how many to win?
e. Yellow gets 12 extra points for good teamwork. Do they win now? Show your working.

Question 16

Question 16 – The school bake sale *(Section C · Problem solving)*

The school bake sale sells cakes, biscuits and buns. On Friday the cooks make 48 cakes, 36 biscuits and 15 buns. On Saturday morning they sell 41 cakes, 29 biscuits and 9 buns. The cooks then make 20 more biscuits.

	Cakes	Biscuits	Buns
Made	48	36	15
Sold	41	29	9

a. How many cakes, biscuits and buns are left after the sale?
b. How many biscuits are there after the cooks make 20 more?
c. How many items are left in total at the end of the sale (cakes, biscuits and buns)?
d. The cooks want to have 50 items for the afternoon. How many more do they need to make?

Question 17

Question 17 – Building a tower *(Section C · Problem solving)*

Max and Sara build towers from toy bricks. Max uses red, blue and yellow bricks to build his tower. He uses 24 red bricks, 19 blue bricks and 33 yellow bricks. Sara builds a tower with 85 bricks. The tower that has more bricks is the taller one.

a. How many bricks does Max use altogether?
b. Whose tower has more bricks and how many more?
c. Sara takes 17 bricks from her tower to build a wall. How many bricks are left in her tower?
d. Now whose tower is taller? Explain how you know.
e. Max wants his tower to have 90 bricks. How many more bricks does he need?

Question 18

Question 18 – Planning a party *(Section C · Problem solving)*

Aisha is planning a birthday party. The hall costs 45 pounds. The cake costs 18 pounds and the food costs 27 pounds. Her family has saved 85 pounds. Her grandma gives her 20 pounds as a present towards the party.

Item	Cost (pounds)
Hall	45
Cake	18
Food	27

a. How much do the hall, cake and food cost altogether?
b. How much money does the family have after Grandma gives 20 pounds?
c. How much money is left after paying for everything?
d. Aisha also wants balloons that cost 12 pounds and party bags that cost 15 pounds. Can she pay for these too? Show your working.

Question 19

Question 19 – Stamp collection *(Section C · Problem solving)*

Noor and her brother Idris collect stamps. Noor has 38 stamps from Europe and 29 stamps from Asia. Idris has 54 stamps. They swap: Noor gives Idris 16 stamps and Idris gives Noor 9 stamps.

a. How many stamps does Noor have at the start?
b. How many stamps does Noor have after the swap?
c. How many stamps does Idris have after the swap?
d. Who has more stamps after the swap, and how many more?
e. How many stamps do they have in total? Explain why it is the same before and after the swap.

Question 20

Question 20 – Walking the school trail *(Section C · Problem solving)*

The school nature trail has three parts. The woodland path is 34 metres long, the pond path is 28 metres long and the field path is 25 metres long. Class 2 walk the whole trail in the morning. In the afternoon, they walk the woodland path again and the pond path again.

a. How long is the whole nature trail?
b. How many metres do the children walk in the afternoon?
c. How far do the children walk altogether in the day?
d. The head teacher says, "The children walk more than 150 metres." Is she right? Explain.

Question 21

Question 21 – Challenge: magic sums *(Section D · Challenge)*

Otto loves number puzzles. Use your addition and subtraction skills to solve them. Show your thinking.

a. Two numbers add to make 100. One of them is 36 more than the other. What are the two numbers? Hint: try 30 and 70 first.
b. I think of a number. I add 28, then take away 15. The answer is 60. What number did I think of?
c. Use each of the digits 2, 4, 5 and 7 once to make two two-digit numbers with the biggest possible total. What is the total?