Addition and Subtraction Unit 2

Problem solving and reasoning questions

Year 3

What number pairs or facts can you spot to add these strings of numbers:

$7 + 4 + 7 = \square$

$1 + 5 + 9 + 5 = \square$

$\square = 8 + 7 + 5$

$14 + 3 + 3 = \square$

Find the missing numbers:

$\square + 35 = 100$

$48 + \square = 100$

$100 = \square + 27$

How much change does Ally get from £1 if she spends:
93p, 59p, 17p, 64p?

These questions should be provided for children to do once the unit has been completed. They assess the children's mastery of the skills and concepts in this unit.

Year 4

What number pairs or facts can you spot to add these strings of numbers:

6 + 7 + 4 + 7 = ☐

11 + 5 + 9 + 5 = ☐

☐ = 8 + 17 + 5

14 + 3 + 3 + 6 + 6 = ☐

Find the missing numbers:

☐ + 32 = 100

27 + ☐ = 100

100 = ☐ + 74

Each week, Anna spends a different amount from her £1 pocket money.
Week 1: 59p
Week 2: 83p
Week 3: 97p

How much change did she receive **in total**?

These questions should be provided for children to do once the unit has been completed.
They assess the children's mastery of the skills and concepts in this unit.

Addition and Subtraction Unit 2

Problem solving and reasoning questions

Year 3

What number pairs or facts can you spot to add these strings of numbers:

7 + 4 + 7 = $\boxed{18}$ double 7.

1 + 5 + 9 + 5 = $\boxed{20}$ pairs to 10.

$\boxed{20}$ = 8 + 7 + 5   near double and bonds to 20.

14 + 3 + 3 = $\boxed{20}$ double 3 and bonds to 20.

Find the missing numbers:
65 + 35 = 100
48 + 52 = 100
100 = 73 + 27
Answers of 75, 62 and 83 suggest children are ignoring the extra 10 from adding the 1s.

How much change does Ally get from £1 if she spends:
93p, 59p, 17p, 64p? 7p, 41p, 83p and 36p respectively.
Answers of 51p, 93p and 46p for the latter 3 questions suggest the same errors with complements to 100 as noted in the previous question.

These questions should be provided for children to do once the unit has been completed. They assess the children's mastery of the skills and concepts in this unit.

Year 4

What number pairs or facts can you spot to add these strings of numbers:

6 + 7 + 4 + 7 = 24 double 7, pairs to 10.

11 + 5 + 9 + 5 = 30 pairs to 10 and 20.

30 = 8 + 17 + 5 complements of 30 (13 and 17)

14 + 3 + 3 + 6 + 6 = 32 doubles

Find the missing numbers:

68 + 32 = 100

27 + 73 = 100

100 = 26 + 74

Answers of 78, 83 and 36 suggest the same errors with complements to 100 as noted for Y3 above.

Each week, Anna spends a different amount from her £1 pocket money.

Week 1: 59p change 41p

Week 2: 83p change 17p

Week 3: 97p change 3p

How much change did she receive **in total**? Total change 61p.

These questions should be provided for children to do once the unit has been completed. They assess the children's mastery of the skills and concepts in this unit.