## Decimal Fractions (tenths)

## Iumping the number line

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| :---: |
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## Exercise 1

Freda worked out how to find $5+\square=8.2$ by saying to herself $5+3$ gives $8,8+0.2$ is 3.2. Ulse Freda's method to work these out.

1) $6+\square=8.5$
(2) $1+\square=9.3$
(3) $3+\square=7.4$
2) $2+\square=5.7$
(5) $6+\square=8.5$
(6) $3+\square=8.3$
3) $5+\square=9.6$
(8) $8+\square=10.2$
(9) $4+\square=7.8$
4) $9+\square=10.8$
(11) $2+\square=7.6$
(12) $5+\square=9.1$
5) $4+\square=8.4$
(14) $7+\square=9.6$
(15) $9+\square=12.7$
6) $8+\square=12.5$
(17) $10+\square=15.3$
(18) $12+\square=14.8$

## Exercise 2

Willow worked out $4.7+\square=8.2$ like this:
$4.7+0.3=5$, and she wrote down 0.3
$5+3=8$, and she wrote down 3

Writing in Willow's book. $0.3+3+0.2=3.5$ $8+0.2=8.2$, and she wrote down 0.2.
Willow's answer was 3.5. Use Willow's answer to work the se out. Do writing like Willow's in your maths 6ook if that helps you.

1) $6.9+\square=8.5$
(2) $4.8+\square=9.3$
(3) $5.7+\square=7.4$
2) $2.9+\square=5.2$
(5) $6.8+\square=8.5$
(6) $2.9+\square=8.3$
3) 

$5.7+\square=9.1$
(8) $8.9+\square=10.2$
(9) $4.6+\square=7.2$
10) $9.9+\square=15.4$
(11) $2.8+\square=8.4$
(12) $5.9+\square=9.1$
13) $3.8+\square=8.4$
(14) $5.9+\square=10.2$
(15) $9.8+\square=12.1$
16) $8.7+\square=12.3$
(17) $10.8+\square=15.3$
(18) $12.9+\square=15.3$

## Exercise 3

Hazel worked out $3.8+\square=9.3$ using only two steps: $3.8+0.2=4$, and she wrote down 0.2 $4+5.3=9.3$, and she wrote down 5.3.

Writing in Hazel's book. $0.2+5.3=5.5$ $\mathcal{H a z e}$ l's answer was 5.5. Ulse Hazel's answer to work the se out. Do writing like Hazel's in your maths book if that helps you.

1) $2.9+\square=8.3$
(2) $6.8+\square=10.3$
(3) $3.7+\square=8.2$
2) $1.9+\square=10.2$
(5) $4.8+\square=9.1$
(6) $12.9+\square=18.5$
3) $15.8+\square=19.1$
(8) $6.9+\square=9.2$
(9) $14.6+\square=19.2$
4) $9.9+\square=25.2$
(11) $2.7+\square=18.4$
(12) $5.8+\square=18.1$
5) $3.6+\square=28.4$
(14) $15.9+\square=28.2$
(15) $9.8+\square=12.1$
6) $4.7+\square=25.3$
(17) $10.8+\square=37.3$
(18) $22.9+\square=55.3$

## Exercise 4

$\mathcal{H e}$ re are some more challenging problems. Have ago at them.

1) $19.8+\square=224.5$
(2) $29.9+\square=343.3$
(3) $32.6+\square=87.1$
2) $22.9+\square=54.2$
(5) $35.8+\square=69.4$
(6) $49.8+\square=150.4$
3) $\quad 59.6+\square=192.1$
(8) $99.9+\square=259.2$
(9) $50.5+\square=89.2$
4) $99.3+\square=853.2$
(11) $99.7+\square=187.4$
(12) $\quad 53.8+\square=78.1$

# Jumping the number line - decimal fractions (tenths) Teacher's Notes 

Number Framework domain: decimal fractions add/sub
Stage: 6 Advanced additive
Curriculum Reference: level 3
Prior knowledge. Students should be able to:

- Use the strategy jumping the number line book 5 page 33
- Combinations of tenths that add to one
- Basic facts to 20


## During these activities, students will meet:

Using jumping the number line strategy to add decimal fractions (tenths)

## Background

These exercises have been set up in the following way.
Exercise 1: adding on from a whole number
Exercise 2: jumping up to a whole number and then adding on using three step method
Exercise 3: using two steps only
Exercise 4: harder problems

Practice exercises with answers PDF or Word
Related activities

## Jumping the number line - decimal fractions (tenths) Answers

## Exercise 1

| 1) | 2.5 | (2) | 8.3 | (3) | 4.4 | (4) | 3.7 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| 5) | 2.5 | (6) | 5.3 | (7) | 4.6 | (8) | 2.2 |
| 9) | 3.8 | (10) | 1.8 | (11) | 5.6 | (12) | 4.1 |
| 13) | 4.4 | $(14)$ | 2.6 | $(15)$ | 3.7 | (16) | 4.5 |
| 17) | 5.3 | $(18)$ | 2.8 |  |  |  |  |

## Exercise 2

1) $0.1+1+0.5=1.6$
(2) $0.2+4+0.3=4.5$
2) $0.3+1+0.4=1.7$
3) $0.2+1+0.5=1.7$
4) $0.3+3+0.1=3.4$
5) $0.4+2+0.2=2.6$
6) $0.2+5+0.4=5.6$
7) $0.2+4+0.4=4.6$
8) $0.2+2+0.1=2.3$
9) $0.2+4+0.3=4.5$
(4) $0.1+2+0.2=2.3$
(6) $0.1+5+0.3=5.4$
(8) $0.1+1+0.2=1.3$
(10) $0.1+5+0.4=5.5$
(12) $0.1+3+0.1=3.2$
(14) $0.1+4+0.2=4.3$
(16) $0.3+3+0.3=3.6$
(18) $0.1+2+0.3=2.4$

## Exercise 3

1) $0.1+5.3=5.4$
(2) $0.2+3.3=3.5$
2) $0.3+4.2=4.5$
(4) $0.1+8.2=8.3$
3) $0.2+4.1=4.3$
(6) $0.1+5.5=5.6$
(8) $0.1+2.2=2.3$
(10) $0.1+15.2=15.3$
(12) $0.2+12.1=12.3$
(14) $0.1+12.2=12.3$
(16) $0.3+20.3=20.6$
(18) $0.1+32.3=32.4$

## Exercise 4

1) $0.2+204.5=204.7$
(2) $0.1+313.3=313.4$
2) $0.4+54.1=54.5$
3) $0.2+33.4=33.6$
4) $0.4+132.1=132.5$
(4) $0.1+31.2=31.3$
(6) $0.2+100.4=100.6$
5) $0.5+38.2=38.7$
(8) $0.1+159.2=159.3$
6) $0.3+87.4=87.7$
(10) $0.7+753.2=753.9$
(12) $0.2+24.1=24.3$
