# Adding and subtracting wholes and decimals

White Rose Maths

**1** Use the number lines to help you work out the additions.

**a)** 3 + 1.7 = $4.7$

+ 1    + 0.7

3

**b)** 6 + 5.8 = $11.8$

+ 5    + 0.8

6

**c)** 16 + 3.52 = $19.52$

+ 3    + 0.52

16
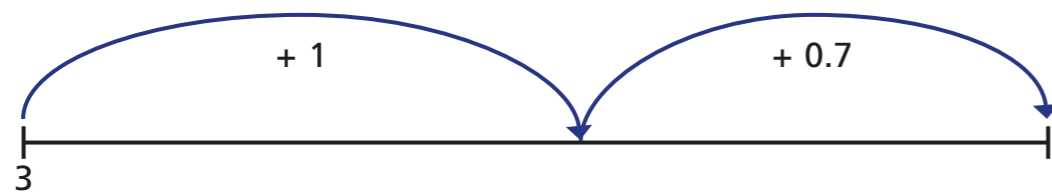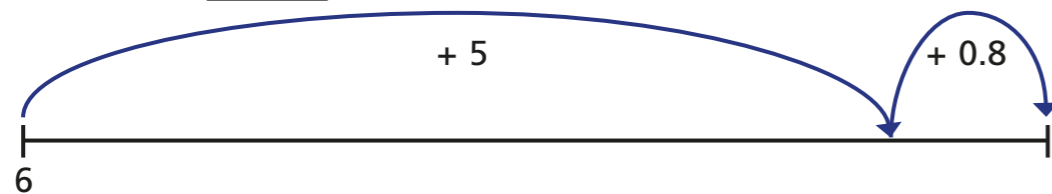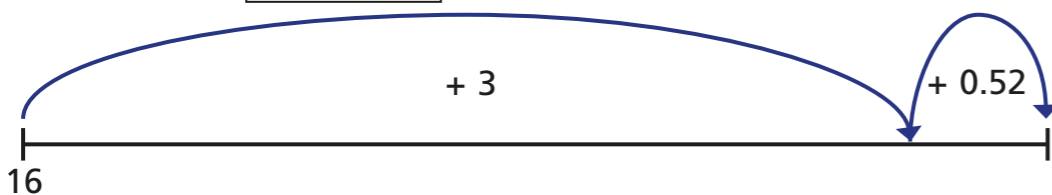
**2** Mo and Dexter are trying to add 3.9 and 4 in their heads.

> I started at 4 and added 3 and then added 0.9

Mo

> I started at 3.9 and added 4

Dexter

Whose method do you prefer? __various__

Talk about it with a partner.

**3** Kim has used the column method to work out 15 + 3.89

```
    1  5 . 0  0
  +    3 . 8  9
    1  8 . 8  9
```

What other methods could you use to work out 15 + 3.89?

**4** Work out the calculations in your head.

**a)** 7 + 2.8 = $9.8$          **f)** 8.3 + 17 = $25.3$

**b)** 5 + 3.6 = $8.6$          **g)** 8.8 − 5 = $3.8$

**c)** 2.8 + 15 = $17.8$          **h)** 15.2 − 3 = $12.2$

**d)** 8 + 3.9 = $11.9$          **i)** 12.8 − 7 = $5.8$

**e)** 25 + 6.8 = $31.8$          **j)** 63.2 − 6 = $57.2$

**5** Complete the additions.

**a)** 6 + 1.83 = $7.83$          **e)** 4.5 + $5$ = 9.5

**b)** 7 + 5.82 = $12.82$          **f)** 4.5 + $15$ = 19.5

**c)** 3.95 + 29 = $32.95$          **g)** 6 + $3.7$ = 9.7

**d)** 2 + 5 + 6.3 = $13.3$          **h)** $9.32$ + 6 = 15.32

**6** Work out the cost of the items.

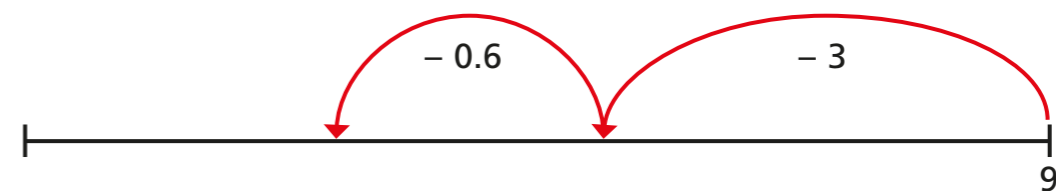| | |
|---|---|
| coffee | £3 |
| tea | £2.35 |
| cake | £4 |
| muffin | £1.95 |
| hot chocolate | £1.99 |

a) coffee and a muffin  £ 4.95

b) a slice of cake and hot chocolate  £ 5.99
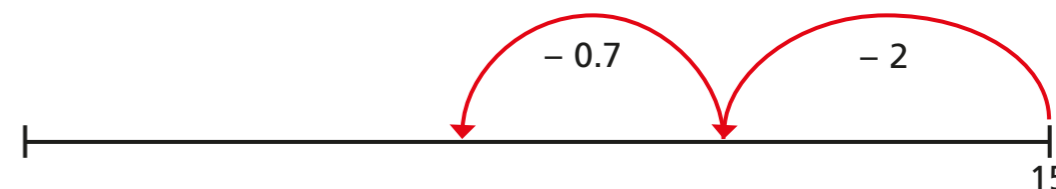
c) coffee, tea and 2 slices of cake  £ 13.35

**7** Use the number lines to help you work out the subtractions.

a) 9 – 0.6 = 8.4

$$-0.6$$
9

b) 9 – 1.6 = 7.4

$$-0.6 \quad -1$$
9

c) 9 – 3.6 = 5.4

$$-0.6 \quad -3$$
9

d) 15 – 2.7 = 12.3

$$-0.7 \quad -2$$
15
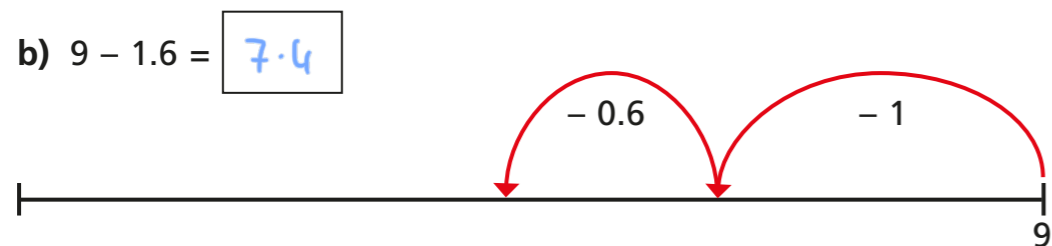
**8** Complete the subtractions.

a) 8 – 2.9 = 5.1          d) 12 – 4.5 = 7.5

b) 16 – 3.5 = 12.5        e) 14 – 7.8 = 6.2

c) 28 – 7.3 = 20.7        f) 32 – 9.2 = 22.8

**9** Annie has worked out 12 – 4.8 in her head.

The answer is 8.2

Annie

What mistake has Annie made?

Talk about it with a partner.