## Know and use mental arithmetic strategies for decimals

Work out the calculations in your head.a) $0.5+0.3=0.8$
b) $0.5+0.5=\square 1$
c) $0.2+0.7=0.9$
d) $0.6+0.4=1$
e) $0.9-0.2=0.7$
f) $0.7-0.5=0.2$
g) $0.5-0.5=0$
h) $0.3+0.6-0.2=0.7$

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What mistake has Dexter made? What is the correct answer?

He hasn't considered place value

7 tenths +5 tenths $=12$ tenths and 10 tenths $=1$ whole
so $\quad 0.7+0.5=1.2$

3 Complete the statements.
a) $0.5+0.8=1.3$
b) $0.6+0.6=1.2$
c) $0.9+0.8=1.7$
d) $0.3+0.5+0.8=1.6$
e) $0.2+0.9=1.1$
f) $0.5+0.6=1.1$
g) $0.7+0.7=1.4$
h) $0.9+0.7=1.6$
(4)

Dora is working out $12.3+4.5$ mentally.


Use Dora's method or another method to work out the additions mentally.
a) $2.6+3.2=5.8$
d) $19.8+40.1=59.9$
b) $13.2+2.7=15.9$
e) $2.8+0.4=3.2$
c) $26.5+32.4=58 \cdot 9$
f) $11.5+2.9=$


5 Mr Jones wants to buy these items in the supermarket.

a) Work out the total cost of the items mentally.
b) Check your answer on a calculator.

Talk about your method with a partner.
a) Work out the subtractions.

b) Work out the multiplications.

(7)

Explain how you can mentally work out 3.4 - 1.8
e.g. $3.4-2=1.4$
$1.4+0.2=1.6$

8
a) Work out the cost of 5 rulers mentally.

b) Work out the cost of 3 cups of coffee mentally.
c) Work out the cost of 7 books mentally.

d) Work out the cost of 7 candles mentally.

9 Here are some multiplications and divisions. Work them out mentally.
a) $2.4 \div 4$ $\square$ c) $0.32 \div 8=0.04$
e) $4.5 \div 5=0.9$
b) $3.2 \times 3=9.6$
d) $1.7 \times 7=11.9$
f) $3.9 \times 11=42.9$

Talk about your method with a partner.
b) Work out the cost 3 cups of coffee mentaly.


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