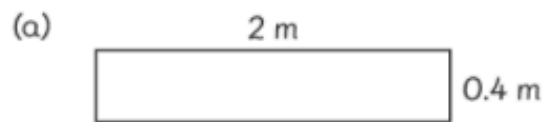


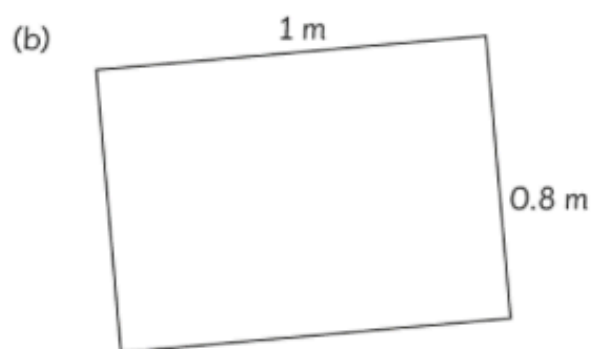
Worksheet 14

Adding and Subtracting Decimals

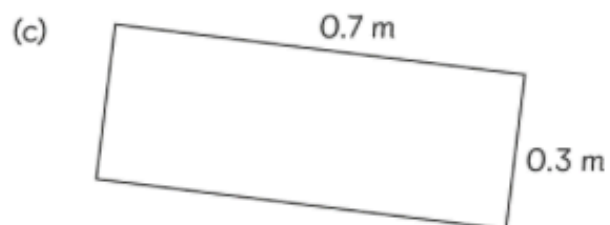
1 Find the perimeter of each rectangle.



4.8 m



3.6 m




2 m

2

 does this.


$$\begin{array}{r}
 2 \\
 \swarrow \quad \searrow \\
 1 \quad \quad 1
 \end{array}
 - 0.6 = 1 + 0.4 \\
 = 1.4$$

Use  's method.


$$\begin{aligned}
 \text{(a)} \quad 2 - 0.3 &= \mathbf{1 + 0.7} \\
 &= \mathbf{1.7}
 \end{aligned}$$

$$\begin{aligned}
 \text{(b)} \quad 8 - 0.5 &= \mathbf{7 + 0.5} \\
 &= \mathbf{7.5}
 \end{aligned}$$

3

 does this.


$$\begin{aligned}
 2 - 0.6 &= 20 \text{ tenths} - 6 \text{ tenths} \\
 &= 14 \text{ tenths} \\
 &= 10 \text{ tenths} + 4 \text{ tenths} \\
 &= 1 + 0.4 \\
 &= 1.4
 \end{aligned}$$

Use  's method.


$$\begin{aligned}
 \text{(a)} \quad 4 - 0.7 &= \\
 &= \mathbf{40 \text{ tenths} - 7 \text{ tenths}} \\
 &= \mathbf{33 \text{ tenths}} \\
 &= \mathbf{30 \text{ tenths} + 3 \text{ tenths}} \\
 &= \mathbf{3 + 0.3} \\
 &= \mathbf{3.3}
 \end{aligned}$$

$$\begin{aligned}
 \text{(b)} \quad 6 - 0.9 &= \\
 &= \mathbf{60 \text{ tenths} - 9 \text{ tenths}} \\
 &= \mathbf{51 \text{ tenths}} \\
 &= \mathbf{50 \text{ tenths} + 1 \text{ tenths}} \\
 &= \mathbf{5 + 0.1} \\
 &= \mathbf{5.1}
 \end{aligned}$$

Three children are representing the number 0.504


$0.504 = \frac{504}{1000}$


 Annie



 $0.504 = \frac{3}{10} + \frac{2}{10} + \frac{4}{1000}$

 Alex


$0.504 = \frac{5}{10} + \frac{4}{1000}$


 Teddy


Who is correct?
Explain why.

Two children are making eleven tenths.

Ones	Tenths
1	0.1



 Amir




 Rosie


Ones	Tenths
	0.1 0.1
	0.1 0.1
	0.1 0.1
	0.1 0.1
	0.1 0.1
	0.1

Who has made it correctly?
Explain your answer.

Three children are representing the number 0.504


$0.504 = \frac{504}{1000}$


Annie



 $0.504 = \frac{3}{10} + \frac{2}{10} + \frac{4}{1000}$

Alex

$0.504 = \frac{5}{10} + \frac{4}{1000}$


Teddy


Who is correct?
Explain why.

Possible answer:


They are all correct. Annie has recorded it as a fraction. Alex and Teddy have partitioned it differently.

Two children are making eleven tenths.

Ones	Tenths
1	0.1



Amir



Rosie

Ones	Tenths
	0.1 0.1
	0.1 0.1
	0.1 0.1
	0.1 0.1
	0.1 0.1
	0.1

Who has made it correctly?
Explain your answer.

Amir and Rosie have both made eleven tenths correctly. Amir has seen that 10 tenths is equivalent to 1 one.