Adding lengths

Discover

1 **a)** Kate and Ebo join the three pieces of bunting together to make one piece. How long is the new piece?

b) If Kate and Ebo had joined the 3 m piece to the 450 cm piece, what total length would they have?

Share

a) Once converted, add the metres and centimetres separately.

First the metres:
4 m + 3 m = 7 m

Then the centimetres:
25 cm + 50 cm = 75 cm

Then add the total metres and centimetres together.

7 m + 75 cm = 7 m 75 cm

H	T	O	
	2	5	
4	5	0	
+ 3	0	0	
7	7	5	cm

The new piece of bunting is 7 m 75 cm.

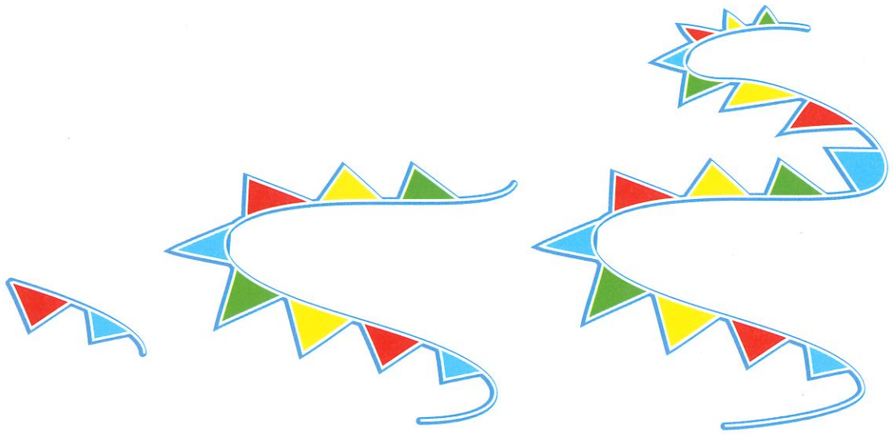
b) One piece is 3 m.

450 cm is the same as 4 m 50 cm.

Kate and Ebo would have a total length of 7 m 50 cm (or 750 cm).

Think together

1 Use both Flo's method and Dexter's method to find the total length of these three pieces of bunting. Check that both methods give the same answer.



35 cm | 125 cm | 2 m 15 cm

2 These three pieces will be joined together to make a plastic model. Use both Flo and Dexter's methods to work out the total height of the model.

3 Work out the missing numbers.

a) 50 cm + 50 cm = ☐ m

b) 4 cm + 60 mm = ☐ cm

c) 12 mm + ☐ mm = 2 cm

d) 1 m 40 cm + ☐ cm = 3 m

CHALLENGE

4 There are 3 pieces of wool. What lengths can you make by joining different combinations of the pieces together?

Which is the best way of doing the calculations?

1 m 85 cm

50 cm

60 cm

I am adding something on to 1 m 85 cm, so I will first add until I make 2 m and then add on whatever is left.

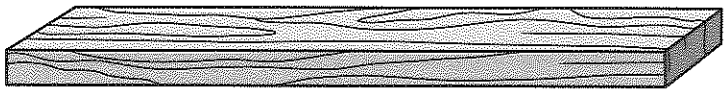
I think it is quicker to convert everything into centimetres and then add them together.

→ Practice book 3B p101

Adding lengths

1 A carpenter joins two pieces of wood together. What is the total length?

a)

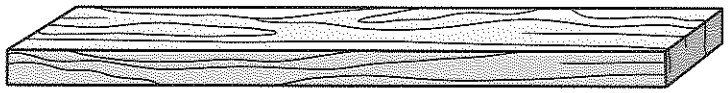


6 m

3 m

6 m + 3 m = ☐ m

b)

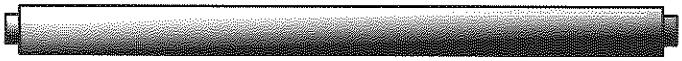


40 cm

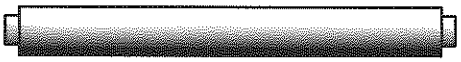
20 cm

40 cm + 20 cm = ☐ cm

2 A plumber joins pieces of pipe together. What is the total length?



120 cm

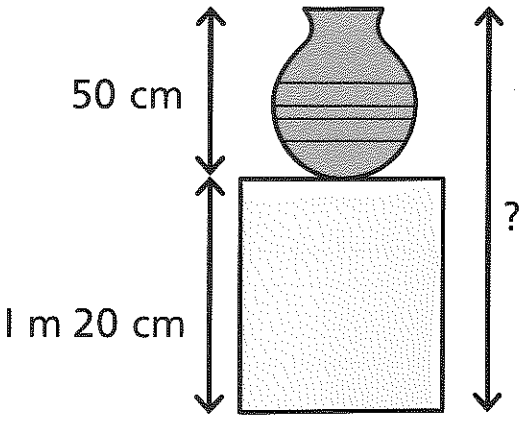


65 cm

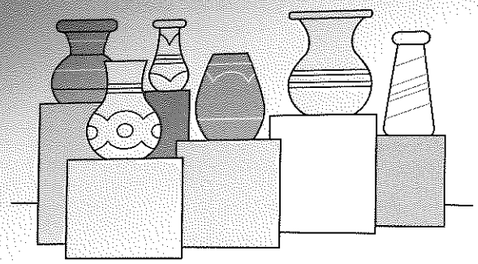
120 cm + 65 cm = _____

3 A shop makes a display by putting a vase on a stand. What is the total height of the display?

The total height is _____ .



4 The shop has more displays of vases and stands. Complete the table.



Display	Stand Height	Vase Height	Total Height
A	40 cm	30 cm	
B	80 cm	30 cm	
C	1 m 20 cm	60 cm	
D	1 m 30 cm	70 cm	

5 Complete the number sentences.

a) 75 cm + 25 cm = ☐ m

b) 27 mm + ☐ mm = 3 cm

c) 6 cm + 70 mm = ☐ cm

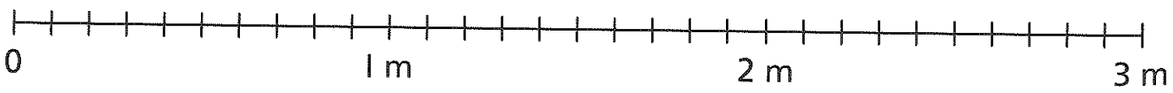
d) 2 m 25 cm + ☐ cm = 3 m

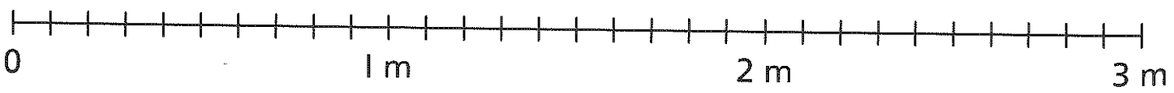
6 Jamilla and Andy took part in the final of a hop, skip and jump competition.

Jamilla hopped 80 cm, skipped 70 cm and jumped 1 m 20 cm.

Andy hopped 70 cm, skipped 1 m 10 cm and jumped 1 m.

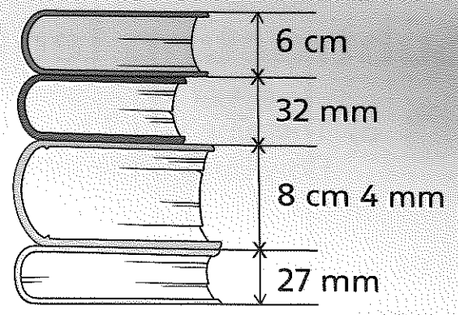
Who won the competition?





_____ won.

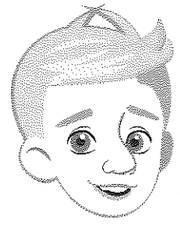
7 These four books are stacked on top of each other. What is the total height of the stack of books?

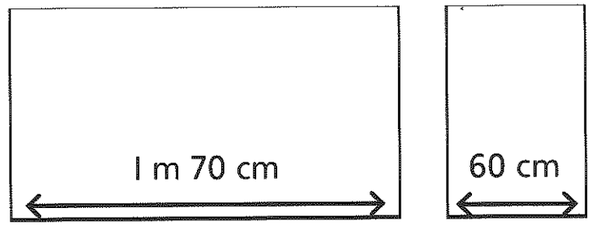


The total height of the stack of books is _____ .

CHALLENGE

8 Mrs Dean asked Zac to work out the total length of two display boards.





When I add 60 cm to 1 m 70 cm, I get 1 m 130 cm.

Do you agree with Zac? Explain. _____

_____

Reflect

Richard knits a scarf that is 1 m 80 cm long. He knits another 30 cm. How long is the scarf now? Explain your steps.