Complete the tape diagrams to work out the amount for each ratio part in each question.

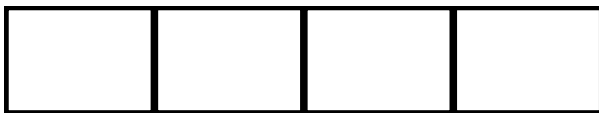1   Divide $50 in the ratio 2 : 3.   Amount

2   Divide $100 in the ratio 1 : 4.   Amount

3   Divide 60 cm in the ratio 6 : 4   Amount

Name: **Date:**

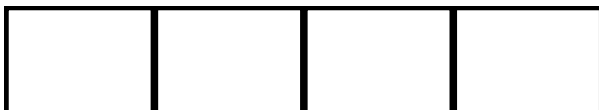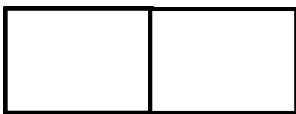Complete the tape diagrams to work out the amount for each ratio part in each question.

		Amount
1	Divide 88 kg in the ratio 6 : 5.	

		Amount
2	Divide $423 in the ratio 2 : 4.	

		Amount
3	Divide $64 cm in the ratio 3 : 2	

Complete the tape diagrams to work out the amount for each ratio part in each question.

4   Divide £60 in the ratio 6 : 5 : 1.   Amount
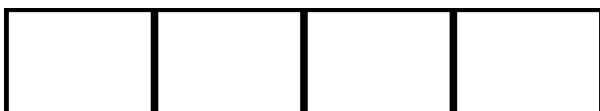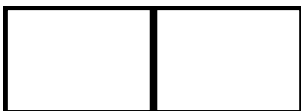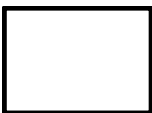
5   Divide £108 in the ratio 3 : 4 : 5.   Amount

6   Divide 30 kg in the ratio 1 : 2 : 3.   Amount

Draw tape diagrams for each of the ratios below and work out the solution to the questions:

1   Heidi and Briony get £80 by selling their old toys at a car boot sale. They divide the money in the ratio 2 : 3. How much money do they each receive?

Heidi receives: ☐   Briony receives: ☐

2   In a chemistry lab, acid and water are mixed in the ratio 1 : 5. A bottle contains 216 ml of the mixture. How much acid and how much water were needed to make this amount of the mixture?

acid: ☐   water: ☐

3   Blue and yellow paints are mixed in the ratio 3 : 5 to produce green. How much of each of the two colours are needed to produce 40 ml of green paint?

Blue paints: ☐   Yellow paints: ☐

Draw tape diagrams for each of the ratios below and work out the solution to the questions:

4   Simon, Sarah and Matthew are given a total of £300. They share it in the ratio 10 : 11 : 9. How much does each receive?

Simon: [ ]   Sarah: [ ]   Matthew: [ ]

5   Julie and Jack run a stall at a car boot sale and take a total of $90. They share the money in the ratio 4 : 5. How much money does each receive?

Julie: [ ]   Jack: [ ]

6   Rachel, Ben, and Emma are given £52. They decide to divide the money in the ratio of their ages, 10 : 9 : 7. How much does each receive?

Rachel: [ ]   Ben: [ ]   Emm[ ]

Use tape diagrams to work out the solution to the following questions:

1   In a fruit cocktail drink, pineapple juice, orange juice and apple juice are mixed in the ratio 7 : 5 : 4. How much of each type of juice is needed to make:
    (a) 80 ml of the cocktail, (b) 1 litre of the cocktail?

80 ml
pineapple
orange
apple

1 litre
pineapple
orange
apple

2   Blue, red and yellow paints are mixed to produce 200 ml of another colour. How much of each colour is needed if they are mixed in the ratio:
    (a) 1 : 1 : 2,
    (b) 3 : 3 : 2,
    (c) 9 : 4 : 3 ?

1 : 1 : 2,
blue
red
yellow

3 : 3 : 2
blue
red
yellow

9 : 4 : 3
blue
red
yellow