

Name: _____

1. Divide each of the following in the given ratio.

- | | | | |
|-----------|-------|---|---|
| (a) \$30 | 1:2 | <input style="width: 40px; height: 25px;" type="text"/> | <input style="width: 40px; height: 25px;" type="text"/> |
| (b) \$100 | 1:4 | <input style="width: 40px; height: 25px;" type="text"/> | <input style="width: 40px; height: 25px;" type="text"/> |
| (c) \$200 | 9:1 | <input style="width: 40px; height: 25px;" type="text"/> | <input style="width: 40px; height: 25px;" type="text"/> |
| (d) \$60 | 1:2:3 | <input style="width: 40px; height: 25px;" type="text"/> | <input style="width: 40px; height: 25px;" type="text"/> |
| (e) \$180 | 4:5 | <input style="width: 40px; height: 25px;" type="text"/> | <input style="width: 40px; height: 25px;" type="text"/> |

2. Tim and Julie are to divide a prize in the ratio 2:3.

- (a) What *fraction* does Tim get?
- (b) What *percentage* does Julie get? %

3. Write the following amounts as ratios in their simplest form.

- | | |
|---|---|
| (a) \$30 : \$90 | (b) \$64 : \$32 : \$8 |
| <input style="width: 80px; height: 30px;" type="text"/> | <input style="width: 80px; height: 30px;" type="text"/> |
| (c) 35 m : 21 m | (d) \$600 : \$200 |
| <input style="width: 80px; height: 30px;" type="text"/> | <input style="width: 80px; height: 30px;" type="text"/> |

4. The Bulldogs rugby team won 8 of their first 12 games. What is their win:loss ratio in its simplest form?

5. A farmer discards 4 out of every 20 apples. What is the ratio of discarded apples to those kept?

6. Cordial drink is made by mixing cordial syrup and water in the ratio 1:4. How many litres of *cordial syrup* are required to be mixed with 12 litres of water?

 litres

7. Two builders are to be paid in the same ratio as their hours of work.

Adrian worked for 3 hours and Jeremy for 5 hours.

The total payment for the job was \$160. How much did each builder receive?

Adrian	\$ <input style="width: 60px; height: 30px;" type="text"/>
Jeremy	\$ <input style="width: 60px; height: 30px;" type="text"/>

8. The ratio of boys to girls at a particular school is 4:5.

If there are 600 boys, what is the *total number of students* at the school?

 students

9. Hair dye solution is made up in the ratio of 2 parts dye to 5 parts water.

If 350 mL of hair dye solution is to be made up, how much of the *dye* will be needed?