Ratio Activity Sheet 1

Name: ..... **Date:** .....

1. What is the ratio of black tiles to white tiles?
1a. What is the ratio of white tiles to black tiles?

2. Using that ratio, how many white tiles would there be if there were 6 black tiles?

3. A burger recipe uses 1 onion for 200g of mince. Jonrey uses this ratio but has 3 onions. How much mince will he have?

4. A grape picker eats 3 grapes for every 9 she puts in the basket. What is the ratio for this in its simplest form?

5. The same grape picker ate 12 grapes, how many did she put in her basket?

6. A decorator paints 7 tiles green and 14 tiles blue. What is the ratio for this in its simplest form?

7. In a classroom there are 3 pencils for every child. There are 30 children in the class, how many pencils are there?

8. The ratio of bananas to apples is 5:2 . There are 6 apples, how many bananas are there?

9. A bus has a sign that says "25 seats, 20 standing". What is the simplified ratio of seats to standing spaces?

10. A cinema contains 100 people. The ratio of children to adults is 7:3 . How many children and how many adults are there?

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Ratio Activity Sheet 2

Name: ..... **Date:** .....

1. What is the ratio of black tiles to white tiles?
1a. What is the ratio of white tiles to black tiles?
2. Using that ratio, how many white tiles would there be if there were 12 black tiles?

3. A recipe for burgers uses a ratio of 3:5 for onions to mixed herbs. There are 15 grams of onions, how many grams of mixed herbs are there?

4. A grape picker eats 3 grapes for every 9 he puts in the basket. He picks 48 grapes, how many did he eat?

5. A decorator paints 21 tiles green and 28 tiles blue. What is the ratio for this in its simplest form?

6. In a classroom there are 6 pencils for every child. There are 28 children in the class, how many pencils are there?

7. There are 5 bananas for every 7 apples. There are 35 apples, how many bananas are there?

8. In a bag of sweets there are 6 cola bottles for every 9 milk bottles. There were 18 cola bottles, how many milk bottles were there?

9. A bus has a sign that says '35 sitting, 21 standing'. What is the simplified ratio of seats to standing spaces?

10. A cinema contains 200 people. The ratio of children to adults is 13:7. How many children and how many adults are there?

11. A Packet of jelly beans contains green, yellow and red Jelly beans with a ratio of 4:7:3. There are 9 red jelly beans, how many green and yellow jelly beans are there?

12. A farm has sheep, pigs and cows at a ratio of 8:3:2. There are 10 cows, how many pigs and sheep are there?

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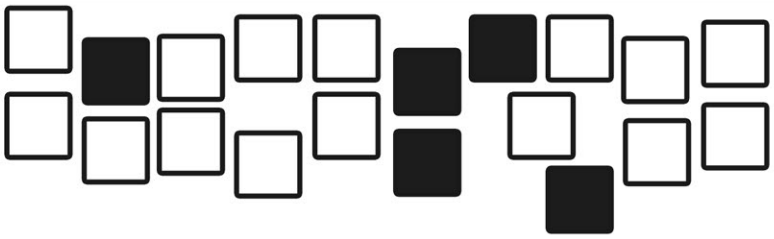
Ratio Activity Sheet 3

Name: ..... **Date:** .....



1. What is the ratio of black tiles to white tiles?
1a. What is the ratio of white tiles to black tiles?

2. Using that ratio, how many white tiles would there be if there were 12 black tiles?

3. **a)** A craftsman sells bird boxes at £23 for every 2 he makes. Write the ratio to show how much he gets paid for 1 bird box
b) How much will he get paid for making 7?
c) The ratio of bird boxes made every hour is 3:1 . How many will he have made in 8 hours?
d) At the end of his work day, how much could the craftsman sell his birdboxes for?

4. A grape picker eats 3 grapes for every 12 he puts in the basket. He ate 36 grapes, how many did he put in the basket?

5. a) A decorator has just pained 400 tiles blue and green at a ratio of 5:20. How many were painted green?
b) How many were painted blue?

6. In a school there are 330 pupils. The ratio of pupils to tables is 6:1. How many tables are there?

7. There are 5 bananas for every 7 apples. There are 35 apples, how many bananas are there?

8. A bag of sweets contains cola bottles, milk bottles and jellybeans at a ratio of 3:7:5. There are 6 cola bottles, how many milks bottles are there? How many jelly beans are there?

9. A bus has a sign that says '56 sitting, 21 standing'. What is the simplified ratio of seats to standing spaces?

10. A cinema contains 300 people. There are 3 children to every 7 adults, how many children are in the cinema?

11. In a raffle, 1 in every 52 tickets won a prize. 364 tickets were sold, how many prizes were won?

12. A farm has sheep, pigs and cows at a ratio of 8:7:5. There are 10 cows, how many pigs and sheep are there?

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Ratio Activity Sheet Answers

Activity Sheet 1

1. 1:3/ 3:1
2. 2
3. 600g
4. 1:3
5. 36
6. 7:14 = 1:2
7. 90
8. 15
9. 25:20 = 5:4
10. 70 children, 30 adults.

Activity Sheet 2

1. 8:12 = 2:3
2. 18
3. 25 grams
4. 12
5. 21:28 = 3:4
6. 168
7. 25
8. 27
9. 35:21 = 5:3
10. 130 children, 70 adults
11. 12 green, 21 yellow
12. 40 sheep, 15 pigs.

Activity Sheet 3

1. 5:15 or 1:3
15:5 or 5:3
2. 36
3a. 2:23 = 1:11.5
b. £80.50
c. 24
d. 8 hours = 24 bird boxes = £276
4. 144
5a. 320
b. 80
6. 55
7. 25
8. 14 milk bottles, 10 jelly beans
9. 56:21 = 8:3
10. 90
11. 7
12. 16 sheep, 14 pigs

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