

Ratio and Proportion Worksheet (1)

Solve these problems:

1. 1:2 and 1:5 are equivalent ratios (they both have the same proportion).

Circle the 2 ratios that share the same proportions.

3:9

2:10

5:10

1:5

10:2

6:2

2. Carry on this sequence of ratios: 3:4, 6:8, 9:12, __: __, __: __

3. In my pocket I have 3 red dice and 2 plastic army men.

What is the ratio of dice to army men? _____

4. What is 5:25 in its simplest form? _____

5. On a treasure map of the school I am using 1cm for every 10m.

The school is 50m wide. How wide would the school be on my

treasure map? _____cm

I answered 2 out of every 3 questions correctly in a test. The test had 9 questions in it altogether. How many questions did I answer correctly? _____

Ratio and Proportion Worksheet (2)

Solve these problems:

1. In my pencil pot, I have 10 pens and 15 pencils.
What is the ratio of pens to pencils? _____
2. On a map I am using, the scale is 1cm for every 10km. If I am mapping a 5000km journey, how many cm is it on the map? _____
3. I answered 7 out of every 10 questions correctly in a test that has 100 questions. How many did I answer correctly altogether? _____
4. In a zoo, there were 80 meerkats and 75 raccoons.
What is the ratio of meerkats to raccoons? _____
5. I measured my stride when walking and found it to be 80cm.
I then walked for 16m. How many strides would I have taken?

6. For every 2 brown haired pupils, there were 3 black haired. There were 8 brown haired pupils. How many black haired pupils were there?

Ratio and Proportion Worksheet (3)

Solve these problems:

1. In my pirate fleet I have 3 rafts and 18 ships.
What is the ratio of rafts to ships in its simplest form? _____
2. On a map I am using, the scale is 1cm for every 10 000m. I am mapping a 55km journey. How long would the journey be on the map? _____
3. On a test of 'Hairstyles of the Ming Dynasty', I answered 16 questions out of every 24 correctly. There were 96 questions. How many did I get right?

4. There are 28 zedonks and 56 zorses at the Zebra Zoo. What is the ratio of zedonks to zorses in its simplest form? _____
5. In Y4, there are 24 children with black hair and 42 children with brown hair. There are half as many children with blonde hair as there are with black hair. What is the overall ratio of blond, black and brown hair colours in Y4 in its simplest form? _____
6. Balin got £1.20 pocket money and saved 40p. Thorin got £3 and saved £2. Who saved the largest proportion of pocket money? _____

Ratio and Proportion Worksheet Answers

Page 1

1. 2:10 and 1:5
2. 12:16, 15:20
3. 3:2
4. 1:5
5. 5cm
6. $2:3 = 6:9$

Page 2

1. 2:3
2. 500cm
3. 70
4. 80:75 16:15
5. 20
6. 12

Page 3

1. 1:6
2. 5.5cm
3. 64
4. $28:56 = 1:2$
5. $12:24:42 = 2:4:7$
6. Balin - $0.4:1.2 = 1:3$
Thorin - 2:3
Thorin saved the largest proportion of pocket money.