

Basic Ratios and Proportion Practice #2

Proportion

1. If Glen rides 4 km in 20 minutes, how far will he ride in an hour at the same speed?
2. If CD cost \$28.99 each, how many can you buy with \$200?
3. Bill paints $6\frac{1}{2}$ rooms in five days. Sam paints 3 room in two days. Which paints faster?
4. If a jumbo jet flies 15 km every minute, how fast is it going in km per hour?
5. Bill needs to keep his keyboarding errors to less than 3 mistakes per hundred words in order to pass a test. If he has to type 360 words, what is the most errors he can make?

Ratio

6.  What is the ratio of white to grey shown?
7. Simplify 24 : 96 to the simplest possible ratio.
8. If 5 lizards out of 20 are native, what is that as the simplest possible ratio of native to not native?
9. If the ratio A : B is 2 : 5 and there are 60 Bs, how many As are there?
10. Split \$125 in the ratio 2 : 3.

Conversion

1 acre = 0.4047 hectares

11. How many hectares is 20 acres?
12. What is 1 hectare in acres?

Answers: Basic Ratios and Proportion Practice #2

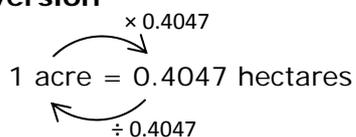
There are usually many ways of answering these questions (but only one correct answer).

1. 20 minutes = $\frac{1}{3}$ hour $3 \times 4 =$ **12 kilometres**
2. $200 \div 28.99 = 6.898$ Need to round down in context **6 CDs**
3. $6.5 \div 5 = 1.3$ per day for Bill.
 $3 \div 2 = 1.5$ per day for Sam **Sam is faster**
(note: you must show working for such questions, not just write the answer)
4. 1 hour = 60 minutes $60 \text{ min} \times 15 \text{ km/min} =$ **900 km per hour**
5. $360 \div 100 = 3.6$ lots of 100 words $3.6 \times 3 = 10.8$
Need to round down in context **10 mistakes**

Ratio

6.  white : grey = 4 : 2 = **2 : 1**
7. 24 : 96 = **1 : 4**
8. 5 out of 20 leaves 15 non native. 5 : 15 = **1 : 3**
9. 2 : 5 = 24 : 60 ($\times 12$ on both sides) **There are 24 As**
10. 2 : 3 means there are $2 + 3 = 5$ shares. $\$125 \div 5$ means each share is \$25
Answer = \$50 : \$75

Conversion



11. $20 \times 0.4047 =$ **8.094 hectares**
12. $1 \div 0.4047 =$ **2.47 acres**