

## Singapore 5th Grade Math Worksheet: 17

### Ratios

Name: \_\_\_\_\_

Date: \_\_\_\_\_

#### Problem 1

Stanley built some rocking horses and rocking rhinos last month. The ratio of the rocking horses to the rocking rhinos was  $5 : 3$ . There were 58 more rocking horses than rocking rhinos. How many rocking horses and rocking rhinos did Stanley build altogether?



#### Problem 2

The height of my pet gorilla to my pet turkey is in the ratio  $9 : 2$ . My gorilla is 1.82 meters taller than my turkey. What is the total height of my two pets?

### Problem 3

James and Alan had a snowball fight on Monday. The number of snowballs that Alan threw to the number of snowballs that James threw was in the ratio  $6 : 2$ . Alan threw 540 more snowballs than James. How many snowballs did they throw altogether?



### Problem 4

The number of fleas on my mangy poodle to the number of fleas in my math teacher's nose is in the ratio  $7 : 4$ . My mangy poodle has 642 more fleas than my math teacher. How many fleas do they have altogether?

### Problem 5

Jane, Helen and Janet are the top scorers for their soccer team. For the last soccer season the number of goals that Jane, Helen and Janet scored was in the ratio of 5 : 3 : 8. The total number of goals that Jane and Janet scored was 78. How many more goals than Helen did Janet score?



### Problem 6

Mrs. Jungu made some mouth-watering maggot stew. The amount of soup her 3 sons, Madoc, Kradoc and Badoc, wolfed down was in the ratio 2 : 7 : 4. The total amount of stew Madoc and Kradoc ate was 2.925 liters. How much more stew than Madoc did Badoc eat?

**Problem 7**

Fred is grinning because he won the lottery last night. He shared his money with his two best friends, Julian and Fu Lian. Fred, Julian and Fu Lian shared the money in the ratio  $9 : 6 : 3$ . Julian and Fu Lian got a total of \$4671. How much more money than Fu Lian did Fred get?

**Problem 8**

Evoll, Wockod and Baid robbed a bank last Wednesday. When they went back home with their loot, they divided the money among themselves. Evoll, Wockod and Baid divided the money in the ratio  $2 : 8 : 5$ . Evoll and Baid got a total of \$1799. How much money did the three of them steal from the bank altogether?

### Problem 9

Jack, Tom and Sheila went hunting in the Amazon Jungle last month. They slept in their canoe on their first night. They woke up the next morning screaming because their bodies were covered with bloodthirsty leeches. Jack had 72 leeches on his body. Tom had 24 fewer leeches than Jack. Sheila had 48 more leeches than Tom. What is the ratio of the leeches on Jack's body to Tom's body to Sheila's body?



### Problem 10

I walked into my room last night and was shocked. There were some animals jumping on my creaky bed. There were 54 monkeys on my bed. There were 108 more lions than monkeys jumping on my bed. There were 54 fewer zebras than lions on my bed. What is the ratio of monkeys to lions to zebras on my bed?

### Problem 11

Robert was a brave Canadian Mountie. He single-handedly caught a large number of terrorists, kidnapers and murderers last year. He nabbed altogether 224 terrorists. The number of kidnapers he apprehended was 128 fewer than the number of terrorists. He also arrested 64 more murderers than kidnapers. What is the ratio of terrorists to kidnapers to murderers that Robert captured?



### Problem 12

Peter, Simon and Alan wanted to go to the mall. Peter had \$360. Simon had \$72 less than Peter. Alan had \$144 less than Simon. What is the ratio of Peter's money to Simon's money to Alan's money?

**Problem 13**

Jabalu goes to the Shakli School of Sorcery. The ratio of humans to elves in his class used to be 3 : 5. Last week 35 more humans enrolled in his class. The number of humans to elves was double after that. How many elves are in his class?

**Problem 14**

The ratio of crocodiles to alligators in my bathtub used to be 3 : 4. Then my grandpa added 300 crocodiles to the bathtub on my birthday. There were half as many alligators as crocodiles in my bathtub after that. How many alligators are in my bathtub now?

### Problem 15

Sam Shark and Bill Bull entered a casino in the morning and began to gamble. When they stopped for lunch and counted their money, they found that the ratio of Sam's winnings to Bill's winnings was 2 : 3. They resumed gambling after lunch. When they stopped just before dinner time, they found that Bill didn't win or lose any money after lunch. However, Sam won a further \$245. The total of Bill's winnings for the day was  $\frac{1}{3}$  that of Sam's. How much money did the two friends win altogether?



### Problem 16

I was climbing up a mountain in Brazil last week. When it got too hot in the afternoon, I entered a cool cave and fell asleep there. When I woke up, my whole body was in pain. That was because a large number of centipedes and vampire bats had latched onto my body. The ratio of centipedes to bats stuck to my body was 3 : 14. I screamed so loudly that a further 28 centipedes from outside the cave crawled in and attached themselves to my nose. There were half as many centipedes as bats stuck to my body after that. How many creatures sucked my blood?



### Problem 17

Dr. Droman and Dr. Ramby had a strange habit. Every time a patient of theirs died, they would remove the patient's brain, pickle it and store it in a jar. At the end of the year 2009 the number of brains that Dr. Ramby had collected to the number of brains that Dr. Droman had collected was in the ratio 3 : 7. Dr. Ramby was unhappy to have fewer brains than Dr. Droman so kind Dr. Droman gave Dr. Ramby 24 of his pickled brains. They had an equal number of brains after that. How many brains did they have altogether?



### Problem 18

John and Tom were fond of snakes so they kept a lot of snakes in their little cottages. In June, the ratio of John's snakes to Tom's snakes was 2 : 5. Tom gave John 24 snakes in July. They had an equal number of snakes after that. How many snakes did Tom have in the beginning?

### Problem 19

Dr. Draminsky and Dr. Drobowski were sneaky surgeons. During surgery, if no one was looking, they would steal one eye from their patients. In August, they had collected a large number of eyeballs. The ratio of Dr. Draminsky's eyeballs to Dr. Drobowski's eyeballs was  $2 : 7$  at the end of September. Dr. Drobowski gave Dr. Draminsky 65 eyeballs the next day. They had the same number of eyeballs after that. How many eyeballs did Dr. Drobowski have before he gave away some of them?



### Problem 20

Abdul and Sulaiman have a special way of gathering durians. They would sit for hours under a tree and wait for ripe thorny durians to fall on their heads. And, of course, they are smart enough to wear heavy-duty construction helmets on their heads. By evening yesterday, they had collected a lot of durians. The number of durians Abdul and Sulaiman had collected was in the ratio  $3 : 9$ . As Sulaiman had too many durians to carry home, he gave 96 durians to Abdul. They carried an equal number of durians home after that. How many durians did Sulaiman have in the beginning?

### **Answers**

Q1 - 232, Q2 - 2.86 m, Q3 - 1080, Q4 - 2354

Q5 - 30, Q6 - 0.65 l, Q7 - \$3114, Q8 - \$3855

Q9 - 3 : 2 : 4, Q10 - 2 : 6 : 4, Q11 - 7 : 3 : 5, Q12 - 5 : 4 : 2

Q13 - 25, Q14 - 240, Q15 - \$420, Q16 - 147

Q17 - 120, Q18 - 80, Q19 - 182, Q20 - 288