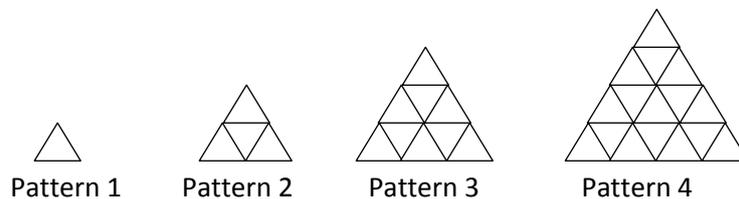


Problem Sums Practice

1. A clock is set at 10 a.m. Since then, for every minutes that passes, it loses 6 seconds. What is the actual time when it shows 7 p.m. that day?
2. The average price of 4 cups is \$18. The first cup costs \$ q , the second and the third cup costs \$14 each. Express the price of the fourth cup in terms of q in its simplest form.
3. The total volume of water in Tank A and Tank B is 42 litres. The total volume of water in Tank B and Tank C is 77 litres. Tank C has $4\frac{1}{2}$ times as much water as Tank A. If the water in Tank B has a height of 20 cm, what is its base area?
4. Anthony, Gladys and Lynn donated some books to set up a library. Anthony donated 24% more books than Gladys. Lynn donated 32% fewer books than Gladys. If Anthony donated 196 more books than Lynn, how many books did they donate in all?
5. Shi Hui baked some buns and cakes in the ratio 3 : 5. After selling $\frac{1}{2}$ the number of buns and 76 cakes, the ratio of the number of buns to the number of cakes became 9 : 11.
 - (a) How many buns did she bake in the beginning?
 - (b) If she sold each bun at \$0.50 and each cake at \$1.25, how much would she receive if she sold all the buns and cakes?
6. Kelvin drove from Town A to Town C without stopping. After driving for 45 minutes at an average speed of 84 km/h, he reached Town B and had covered $\frac{1}{6}$ of his journey. He continued the rest of his journey at an average speed of 90 km/h. Kelvin reached Town C at 14 10.
 - (a) How far apart were Town B and Town C?
 - (b) What time did Kelvin leave Town A? Give your answer in 24-hour format.

7. Benny had \$56 more than Abby. After he gave half his money to Abby, she had \$104 more than him. How much did they have altogether?
8. Darren and Becky had a total of 180 sweets at first. Darren gave $\frac{2}{3}$ of his sweets to Becky. Becky then gave $\frac{3}{8}$ of her sweets to Darren. As a result, both of them had the same number of sweets. How many more sweets had Darren than Becky at first?
9. The figures below are made up of matchsticks. Study the pattern and complete the table by finding the values of **v**, **w**, **x**, **y** and **z**



Pattern Number	1	2	3	4	5	...	7	...	y
Number of triangles	1	4	9	16	25	...	w	...	144
Number of matchsticks	3	9	18	30	v	...	x	...	z

10. During a sale, Shop A and Shop B were selling a similar belt at \$7 and \$15 respectively. Before the sale, the price of the belt was the same in both shops. A sum of \$190 could be saved by buying 5 such belts from each shop during the sale. How much was the price of the belt from each shop before the discount?
11. A clerk is paid 2 cents for every word she types. She receives a bonus of \$2 for every 2000 words she types. How many words must she type to earn \$345?
12. A fruit seller bought 8 baskets of papayas. Each basket contained 45 papayas. $\frac{1}{6}$ of the papayas were not ripe and could not be sold. He sold $\frac{5}{6}$ of the ripe papayas. How many papayas had he left altogether?

13. Lisa and Terrence started driving from the same place but in opposite directions along a straight road. After driving for 5 hours, they were 763 km apart. Terrence's average driving speed was 80 km/h. Find Lisa's average driving speed.
14. $\frac{2}{7}$ of a tank is filled with water. Another 60 litres of water are needed to fill the tank to its brim.
- (a) Find the volume of the tank.
- (b) The height of the tank is 30 cm and its length is 80 cm. Find the perimeter of its base area.
15. The ratio of teachers to pupils in a school is 5 : 64. The number of girls is $\frac{5}{8}$ the number of boys. There are 192 more boys than girls. How many more pupils than teachers are there in the school?
16. There are 2800 large and small eggs at a stall. $\frac{2}{5}$ of the large eggs is equal to $\frac{2}{9}$ of the small eggs. Find the difference between the number of large and small eggs at the stall.
17. A transport company charges Mr Wong \$3 for each flower pot safely delivered but pays him \$27 for every pot damaged in the process of delivery. If Mr Wong paid a total of \$11 730 to the transport company for the delivery of 4000 flower pots, how many of the flower pots were damaged during delivery?
18. Last year, 75% of the children in the Art Club were girls. 49 girls and 3 boys left the club. The remaining children were then told to form groups of 10. In each group, there were 3 boys. How many children were there in the Art Club at first.